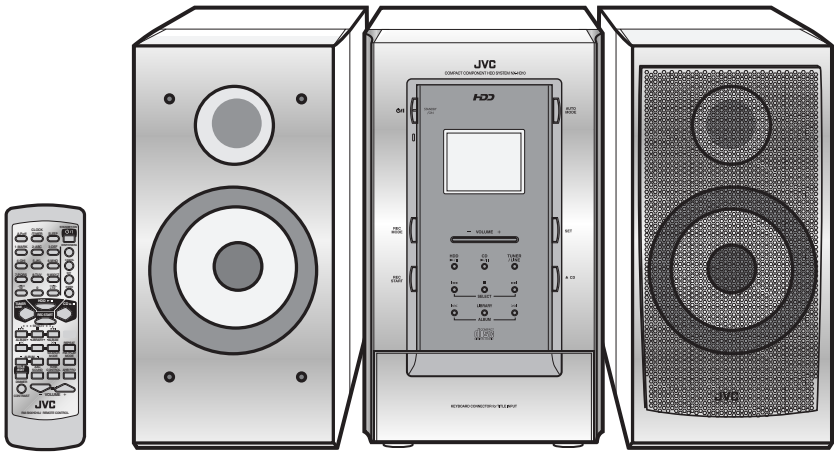
JVC

SERVICE MANUAL

COMPACT COMPONENT HDD SYSTEM

NX-HD10



SP-NXHD10 CA-NXHD10 SP-NXHD10

HDD

COMPACT disc DIGITAL AUDIO

Area Suffix	
J	U.S.A.

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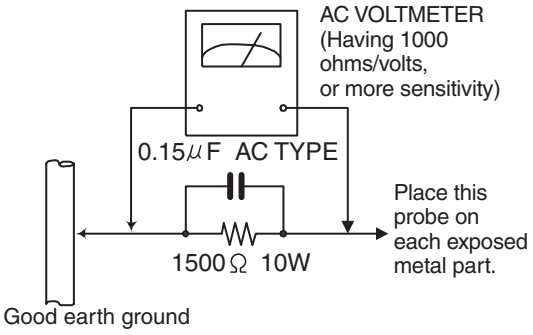
No.21155
Sep. 2002

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer`s warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

Preventing static electricity

1.Grounding to prevent damage by static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

2.About the earth processing for the destruction prevention by static electricity

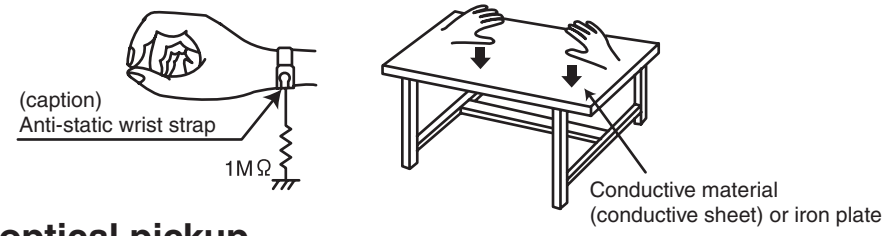
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players. Be careful to use proper grounding in the area where repairs are being performed.

2-1 Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

2-2 Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)

2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

4.Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.

2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.

3. Handle the flexible cable carefully as it may break when subjected to strong force.

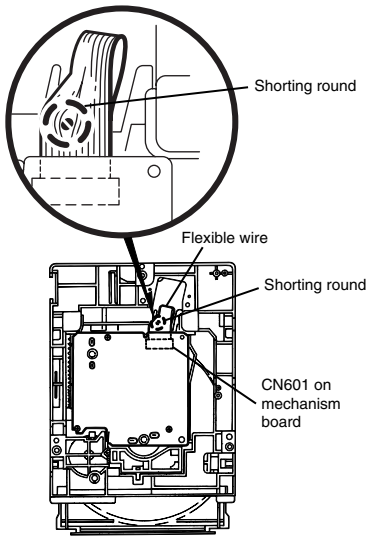
4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it

Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for pick-up and how to detach the substrate.**

1.Solder is put up before the card wire is removed from connector on the CD substrate as shown in Figure.
(When the wire is removed without putting up solder, the CD pick-up assembly might destroy.)

2.Please remove solder after connecting the card wire with when you install picking up in the substrate.



Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

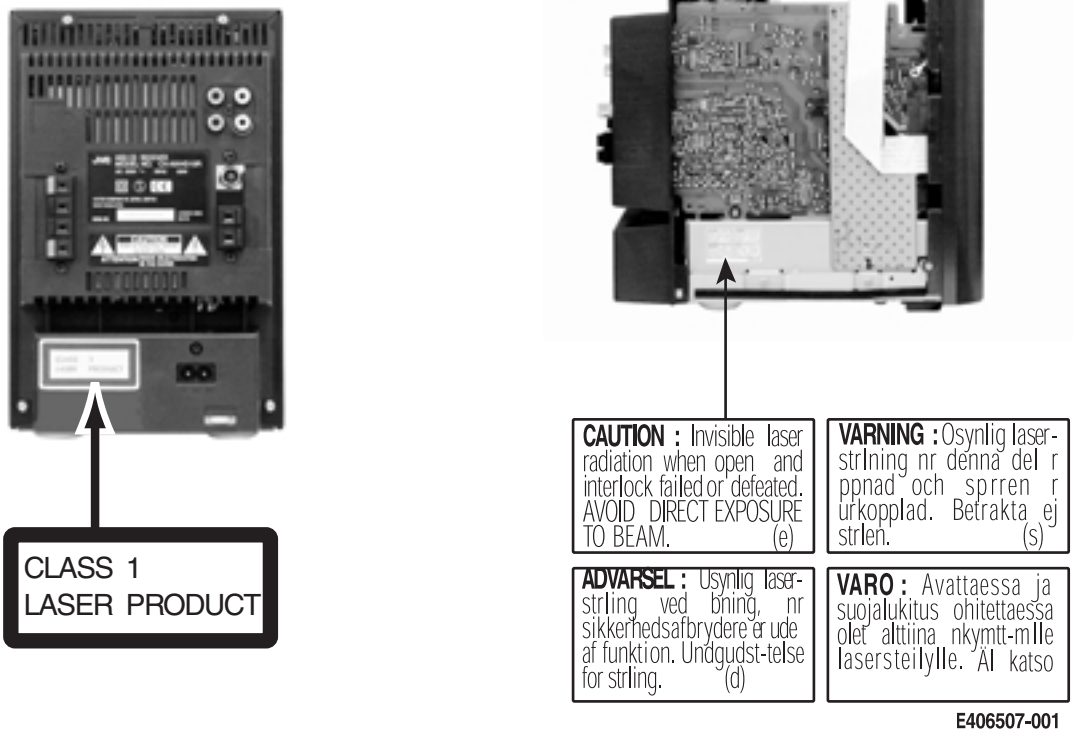
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

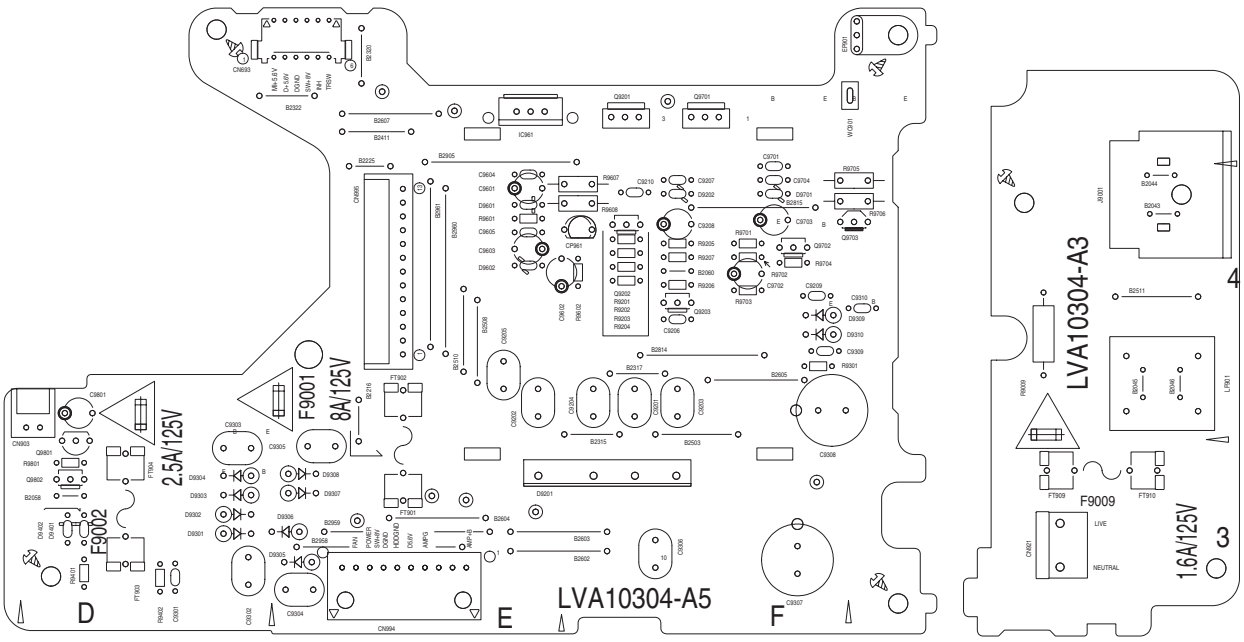
ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

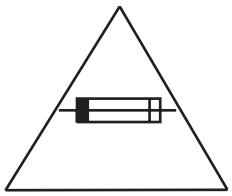
WARNING LABEL


CLASS 1
LASER PRODUCT
CAUTION : Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)
VARNING : Osynlig laser-strlning nr denna del r ppnad och sprren r urkopplad. Betrakta ej strlen. (s)
ADVARSEL : Usynlig laser-strling ved bning, nr sikkerhedsafbrydere er ude af funktion. Undgudst-telse for strling. (d)
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina nkymtt-mlle lasersteilylle. Al katso
E406507-001

Importance administering point on the safety



For USA and Canada / pour États - Unis d' Amérique et Canada



Caution: For continued protection against risk of fire, replace only with same type 2.5A/125V for F9002, 8A/125V for F9001 and 1.6A/125V for F9009. This symbolspecifies type of fast operating fuse.

Précaution: Pour evitisques de fer reux, remplacez le fusible de sureté de F9002 comme le meme type que 2.5A/125V, et 8A/125V pour F9001 et 1.6A/125V pour F9009.
Ce sont des fusibles sûretes qui functionnes rapide.

Disassembly method

<Main body section>

■Removing the Top cover (See Fig.1,2)

1. Remove the four screws **A** on the back of the body.
2. Remove the screw **B** on each side of the body.
3. Remove the rear side of the top cover upward as shown in the figure while pulling both sides of the top cover outward.

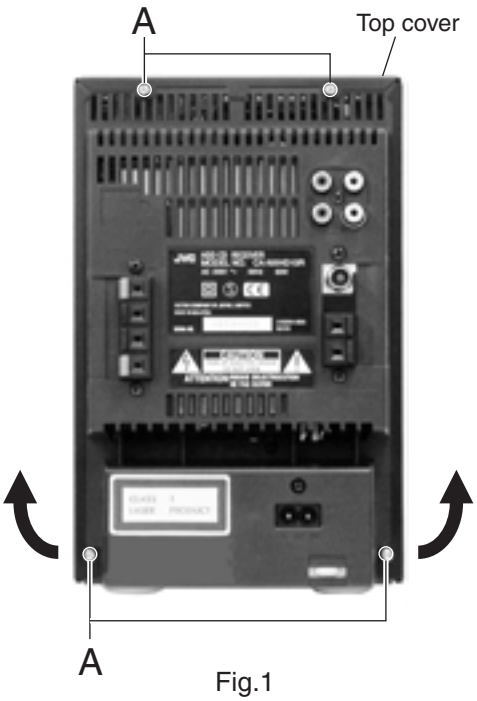


Fig.1

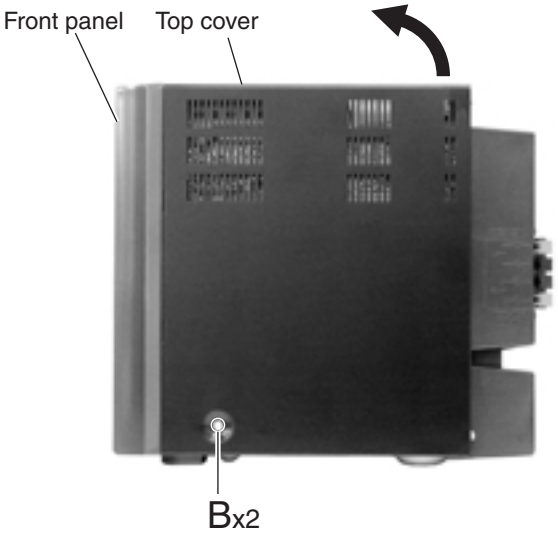


Fig.2

■Removing the HDD board assembly (See Fig.3 and 4)

- Prior to performing the following procedure, remove the top cover.

1. Disconnect the card wire from connector CN930 and CN931 on the HDD board assembly on the right side of the body.
2. Remove the two screws **C** and the two special screws **D** on top of the body.
3. Release the joint **a** on top of the body in the direction of the arrow. Move the rear side of the HDD board assembly upward and remove.

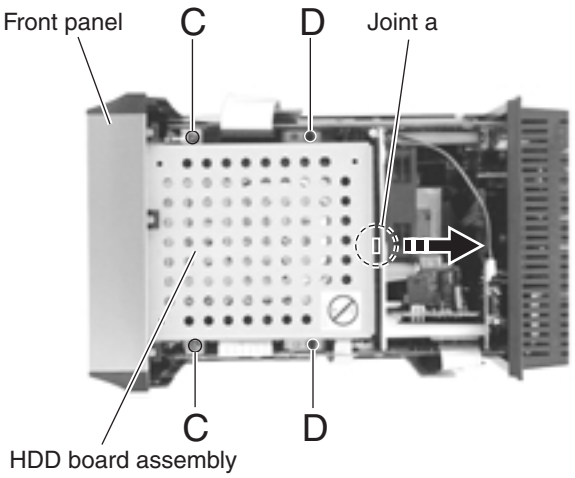


Fig.4

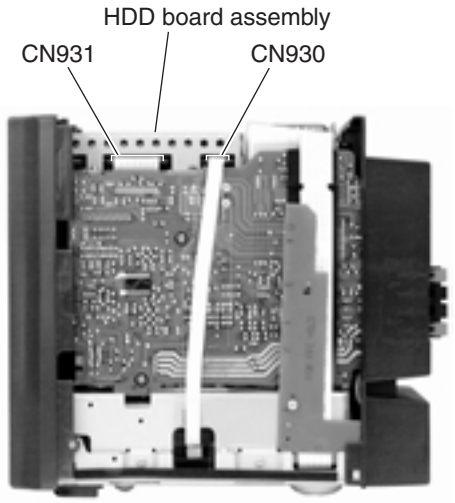


Fig.3

■Removing the Front panel assembly (See Fig.5~9)

- Prior to performing the following procedure, remove the top cover and the HDD board assembly.

1. Disconnect the card wire from connector CN602 on the inside of the system control board on the left side of the body.
2. Remove the screw **E** on each side of the body.
3. Remove the two screws **F** on the bottom of the body.
4. Release the joint **b** on the bottom and the joint **c** on each side of the body using a screwdriver. Move the front panel assembly forward.
5. Release the wire extending from the headphone board under the front panel assembly from the two clamps. Set the front panel assembly apart from the body as far as possible.
6. Disconnect the wire from connector CN501 on the system control board and CN301 on the main amplifier board. Remove the front panel assembly.

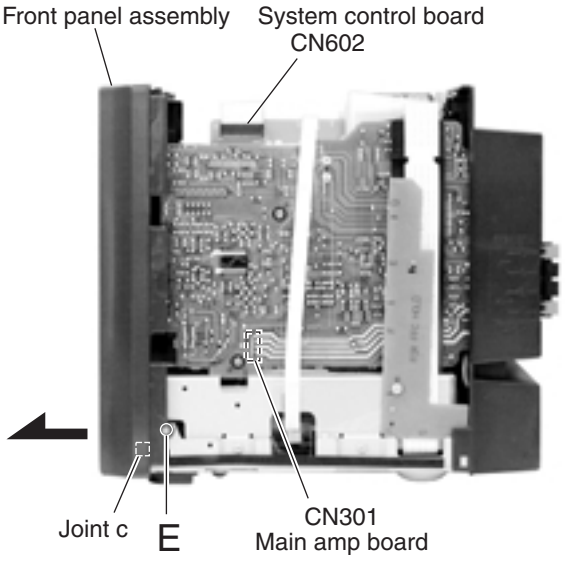


Fig.5

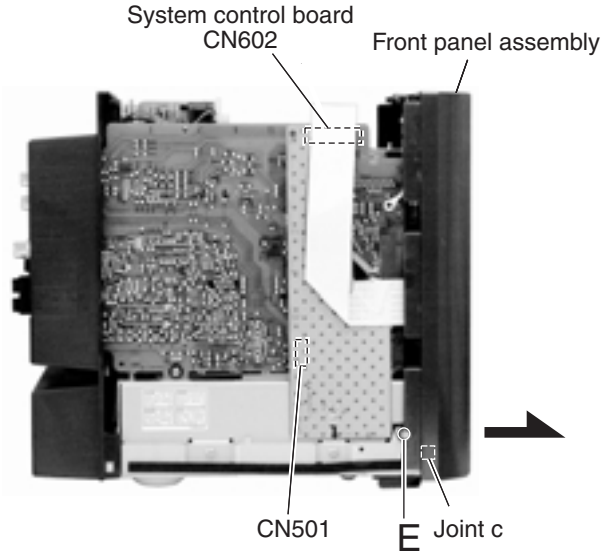


Fig.6

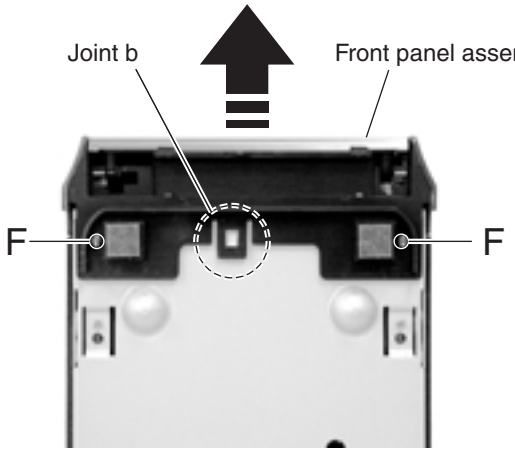


Fig.7

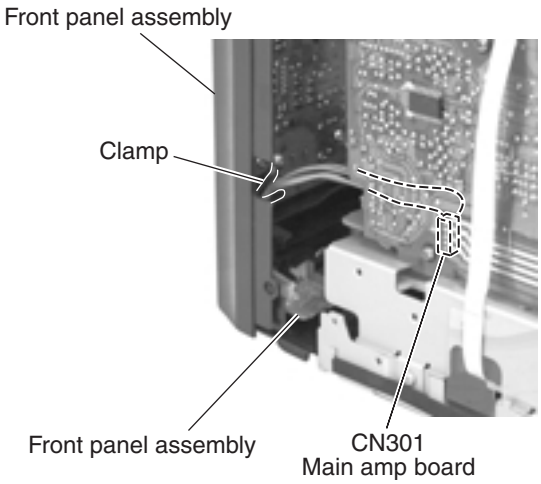


Fig.8

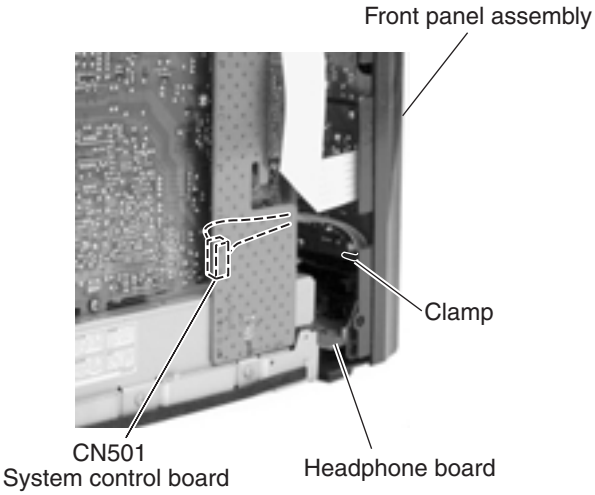


Fig.9

■ Remove the Rear cover (See Fig.10~12)

- Prior to performing the following procedure, remove the top cover.

1. Remove the seven screws **G** on the back of the body.

2. Release the joint **d** on each lower side of the rear cover using a screwdriver.

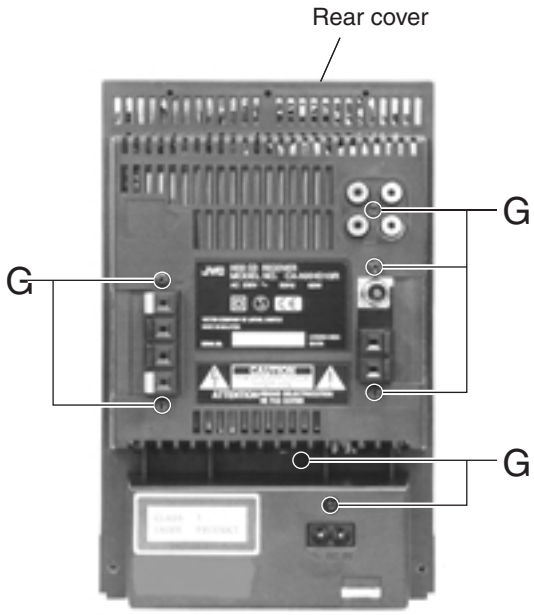


Fig.10

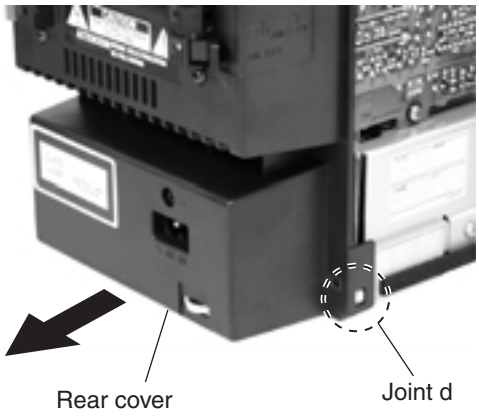


Fig.11

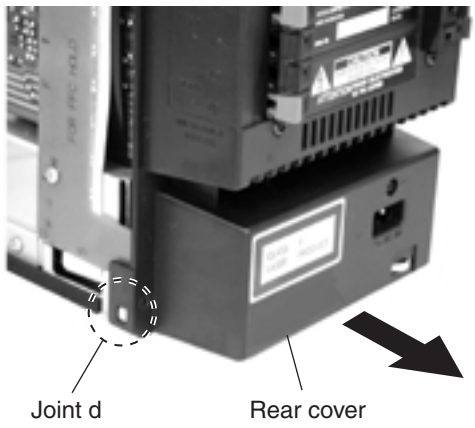


Fig.12

■Remove the System control board/Card wire sub board (See Fig.13,14)

・ Prior to performing the following procedure, remove the top cover, the HDD board assembly and the rear cover.

1. Remove the screw **H** attaching the card wire sub board on the left side of the body (The card wire sub board can be removed if only the top cover has been removed).

2. Disconnect the card wire from connector CN602 and CN605 on the system control board.

3. Remove the three screws **I** .

4. Disconnect the connector CN603 and CN604 outward and remove the system control board.

5. Disconnect the wire from connector CN501 on the inside of the system control board.

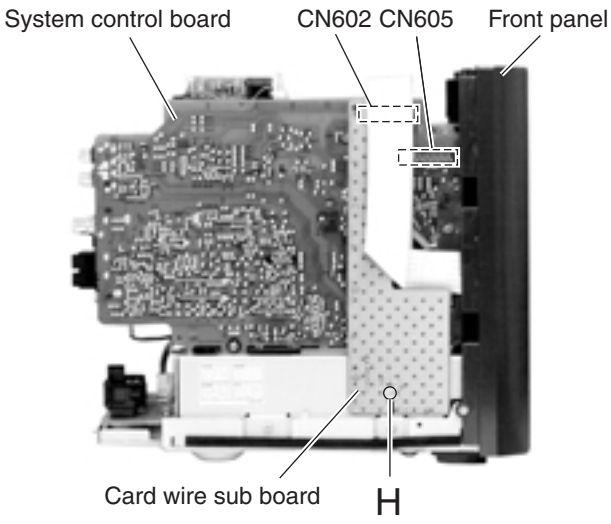


Fig.13

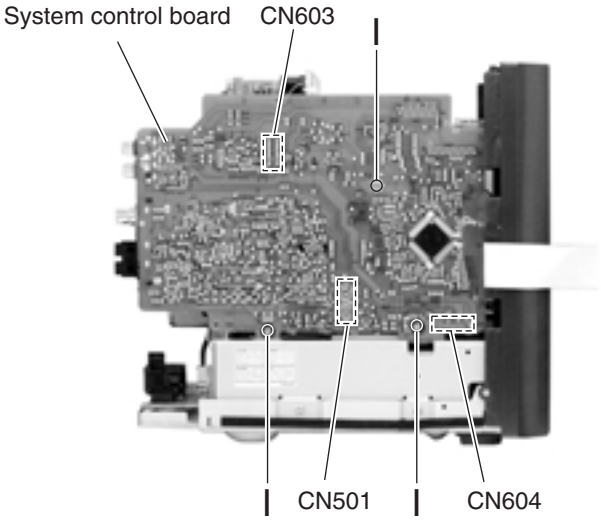


Fig.14

■Removing the Card wire sub board/ Headphone board/ Heat sink (See Fig.15~18)

・ Prior to performing the following procedure, remove the top cover, the HDD board assembly and the rear cover.

1. Remove the screw **J** on the right side of the body (The card wire sub board can be removed if only the top cover has been removed).

2. Disconnect the card wire from connector CN661 and CN695 on the main amplifier board.

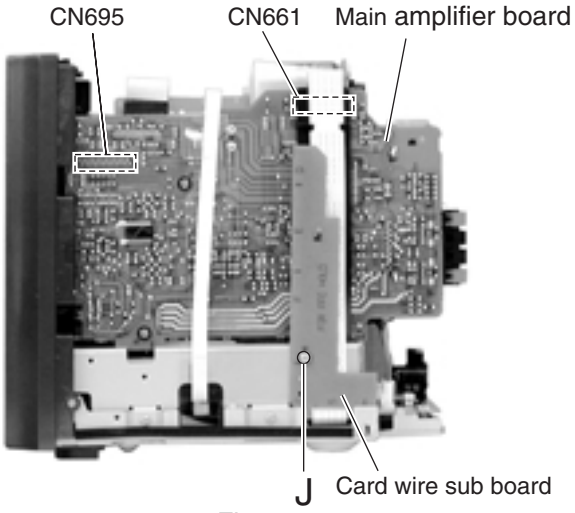


Fig.15

3. Remove the screw **K** and the two screws **L** attaching the main amplifier board.

4. Remove the screw **M** on the back of the body.

5. Disconnect connector CN901 and CN904 on the main amplifier board, and remove the main amplifier board.

6. Disconnect the wire form connector CN301 on the inside of the main amplifier board. Remove the main amplifier board with the heat sink.

7. Remove the two screws **N** attaching the heat sink.

8. Release the bending parts at the two joints **e** and remove the heat sink.

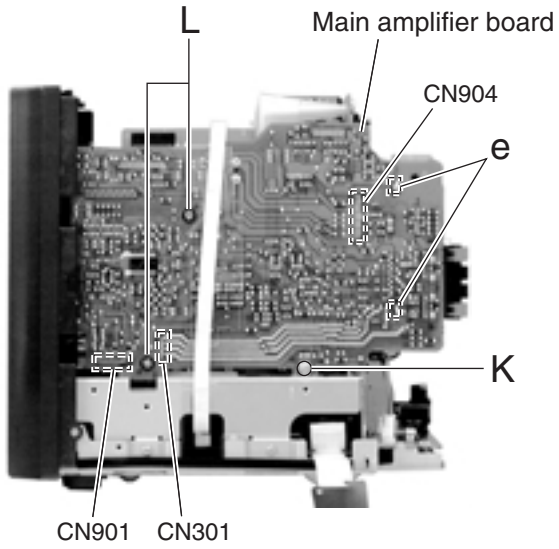


Fig.16

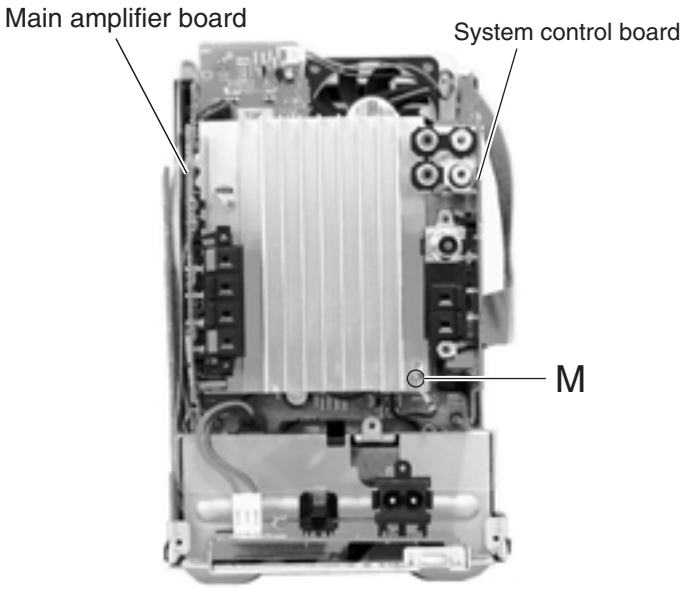


Fig.17

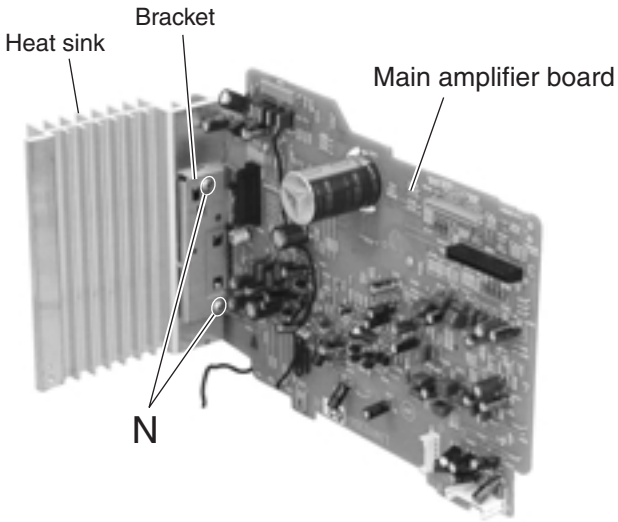


Fig.18

■ Removing the AC jack board (See Fig.19)

・ Prior to performing the following procedure, remove the top cover and the rear cover.

1. Disconnect the wire from connector CN921 on the AC jack board.

2. Remove the screw **O** attaching the AC jack board.

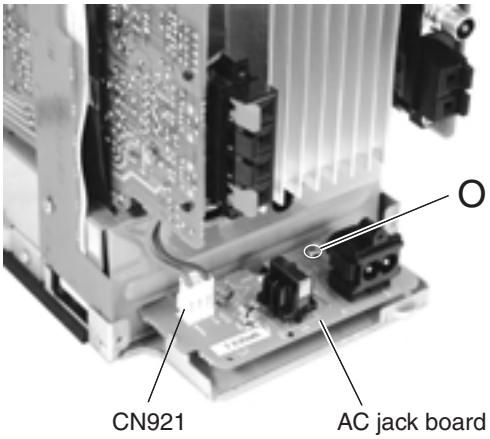


Fig.19

■Removing the Regulator board (See Fig.20)

・ Prior to performing the following procedure, remove the top cover, the HDD board assembly, the rear cover, the system control board and the main amplifier board.

1. Disconnect the wire from connector CN903 and CN955 on the back of the body.

2. Remove the four screws **P** attaching the regulator board.

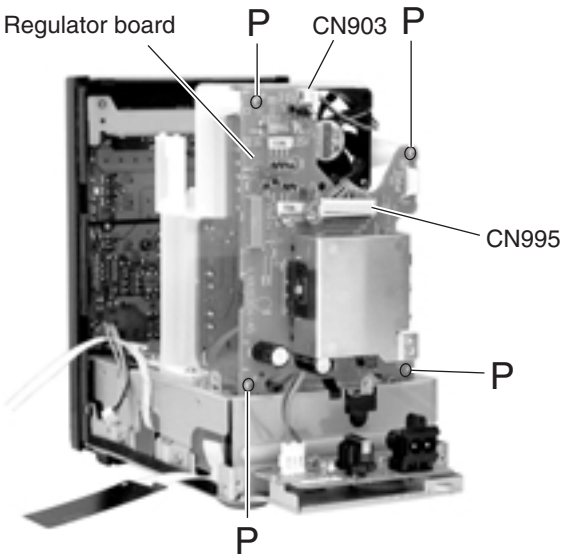


Fig.20

■Removing the Fan assembly (See Fig.21)

・ Prior to performing the following procedure, remove the top cover, the HDD board assembly, the rear cover, the system control board, the main amplifier board and the regulator board.

1. Remove the band setting the fan assembly wire on the back of the body.

2. Loosen the screw **Q** and remove the screw **R** attaching the fan assembly.

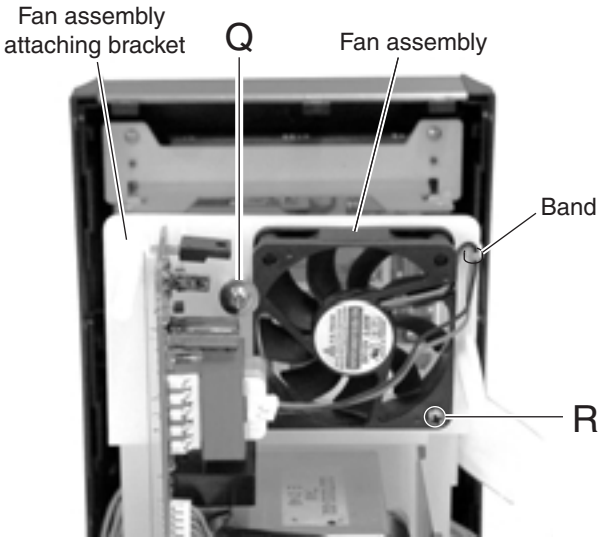


Fig.21

■Removing the Power transformer assembly (See Fig.21~23)

・ Prior to performing the following procedure, remove the top cover, the HDD board assembly, the rear cover, the system control board, the main amplifier board and the regulator board.

1. Remove the four screws **S** attaching the fan assembly attaching bracket and the silicon steel plate. Release the two joints **d** backward and remove the fan assembly attaching bracket (The fan assembly will comes off at the same time).

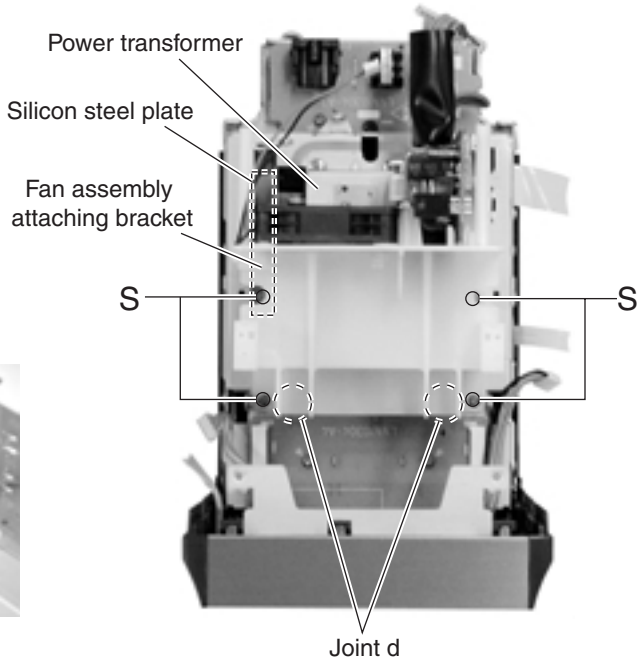


Fig.21-1

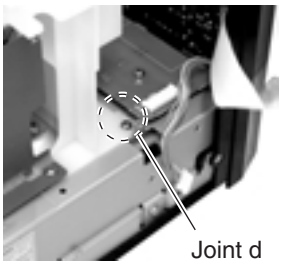


Fig.21-3

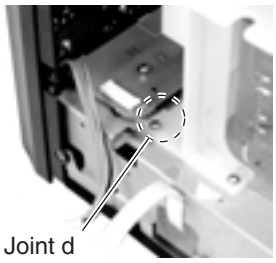


Fig.21-2

2. Disconnect the wire from connector CN921 on the AC jack board.

3. Remove the four screws **T** attaching the power transformer assembly.

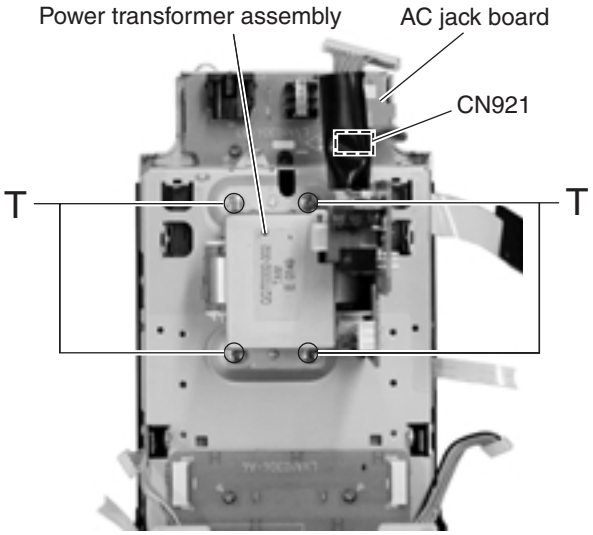


Fig.23

■ Removing the Relay board (See Fig.24)

- Prior to performing the following procedure, remove the top cover, the HDD board assembly, the rear cover, the system control board and the main amplifier board.

1. Remove the two screws **U** on top of the body.

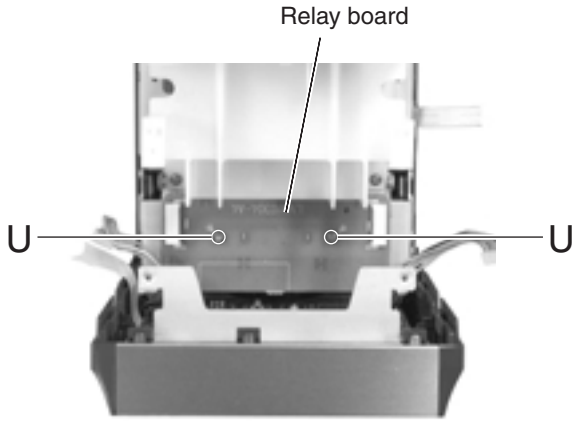


Fig.24

■ Removing the CD mechanism assembly (See Fig.25~28)

- Prior to performing the following procedure, remove the top cover, the HDD board assembly, the front panel assembly, the rear cover, the system control board, the main amplifier board, the regulator board, the fan assembly and the power transformer assembly.

1. Remove the five screws **V** attaching the CD mechanism cover.
2. Lift the front side of the CD mechanism cover to disengage the joint **e** on the rear side of the CD mechanism cover.
3. Remove the three screws **W** .

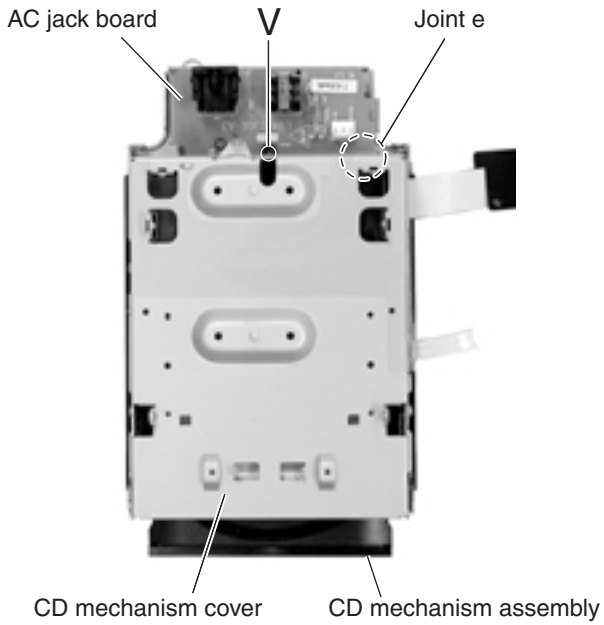


Fig.25

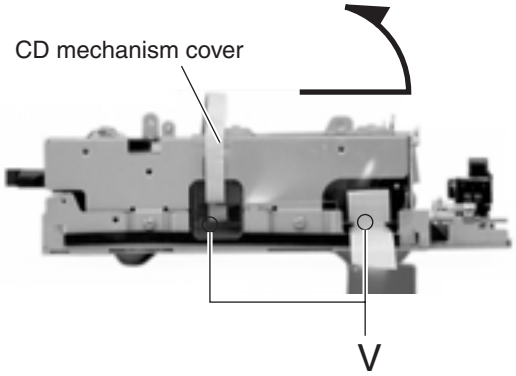


Fig.26

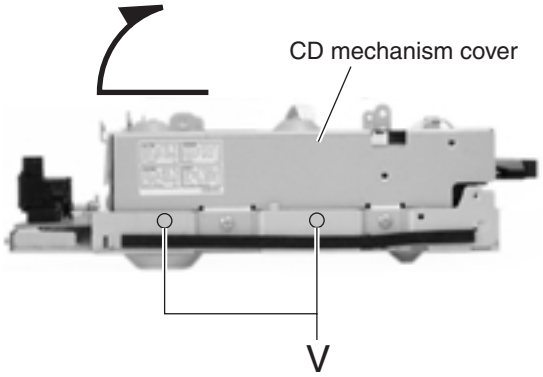


Fig.27

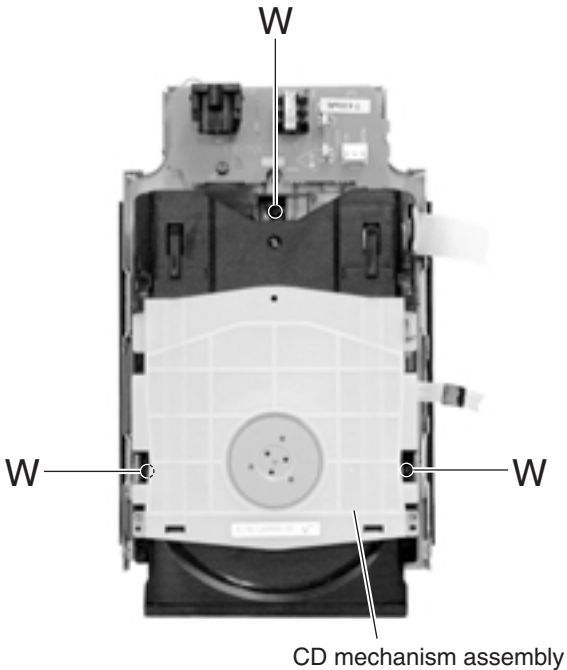


Fig.28

<Front assembly section>

・ Prior to performing the following procedure, remove the top cover, the HDD board assembly and the front panel assembly.

■ Removing the Function switch board (See Fig.29~31)

1. Remove the two screws **X** attaching the bracket.
2. Remove the eight screws **Y** attaching the function board.

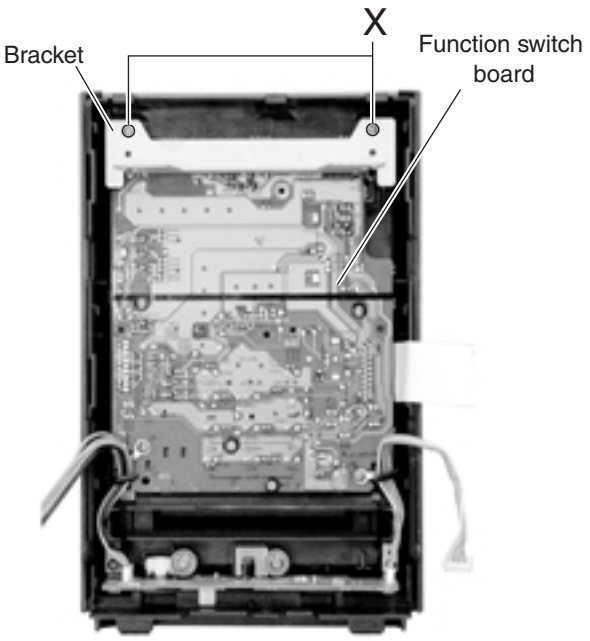


Fig.29

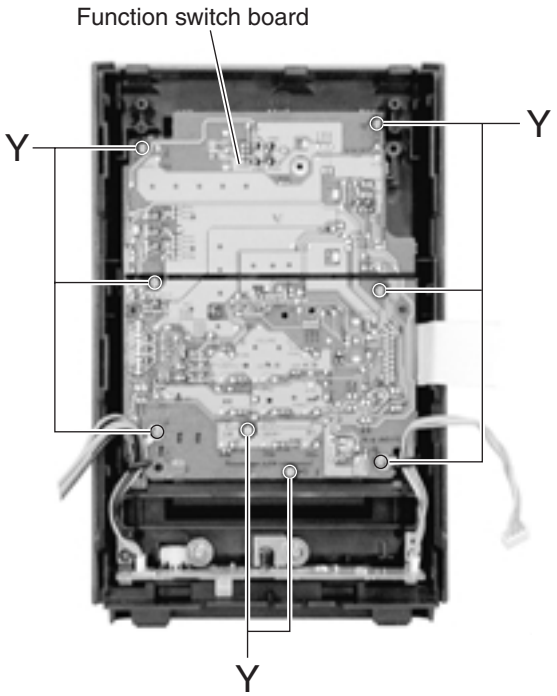


Fig.30

■ Removing the Jack board (See Fig.31)

1. Remove the two screws **Z** and pull out the jack board toward the rear.

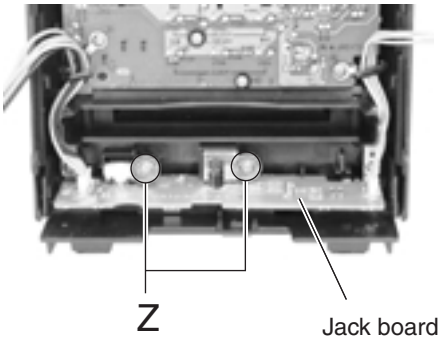


Fig.31

<CD Mechanism Assembly>

■ Removing the CL. Base Assembly and Tray (Refer to Figs. 1 to 5.)

1. Remove the two screws **A** fastening the CL. base assembly from the top of the CD mechanism assembly.

2. Move the CL. base assembly diagonally upwards as indicated by the arrow to release it from the two hooks **a**.

3. Turn the idle gear in the arrow-marked direction from the upper side of the CD mechanism assembly. Accordingly, the TRAMECHA assembly moves downwards.

> Note: When drawing out the tray, shift down the TRAMECHA assembly to the position where the tray does not contact the T-T assembly of the TRAMECHA assembly.

4. Draw out the tray frontwards for removing it.

> Note: When reinstalling the tray:
> - Turn the idle gear so that the part **b** of the tray gear is positioned in the part **c** shown in Fig. 4. (Eject position)
> - Engage the right and left hooks **d** and e of the tray with the right and left grooves of the TRAMECHA assembly respectively for retaining the tray.

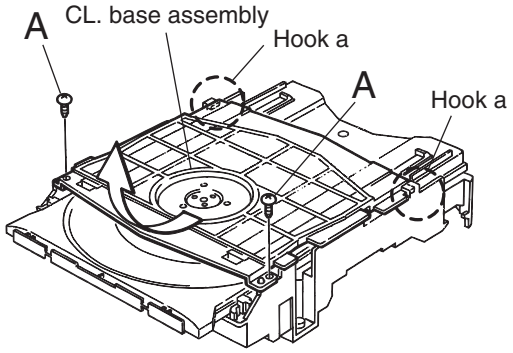


Fig. 1

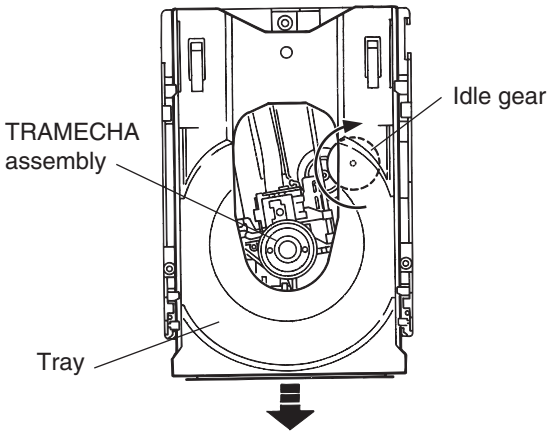


Fig. 2

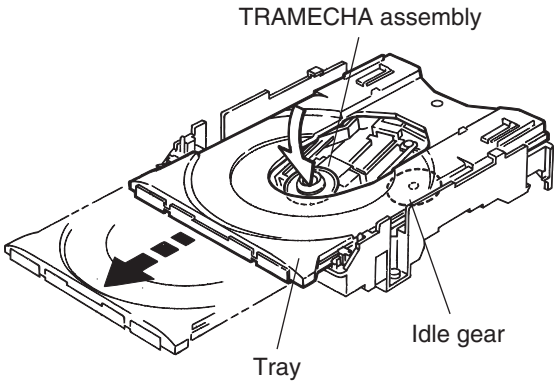


Fig. 3

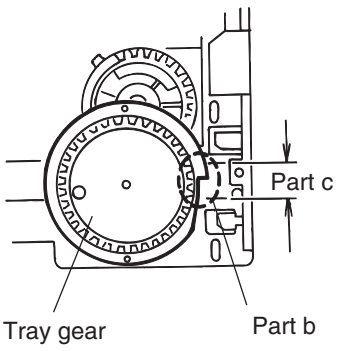


Fig. 4

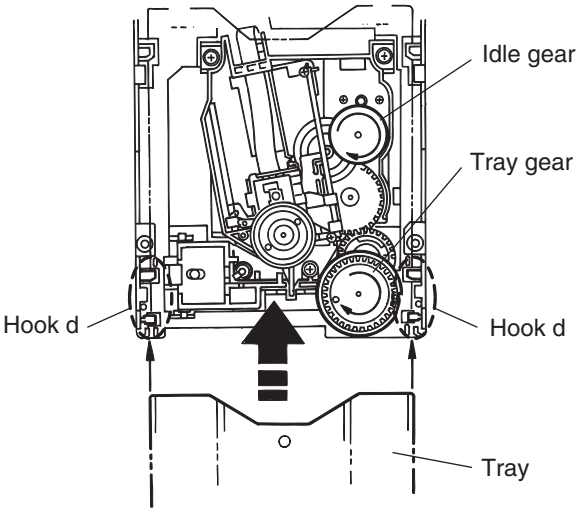


Fig. 5

■ Removing the TRAMECHA Assembly (Refer to Figs. 6 to 9.)

- Remove the CL. base assembly and tray.

Reference: The TRAMECHA assembly can be removed without removal of the mechanism P.C. board.

1. If the TRAMECHA assembly is lowered and it is located out of the PLAY position, turn the idle gear in the arrow-marked direction so that the hole in the part **f** of the tray gear meets the hole on the CL. base assembly. (Set the TRAMECHA assembly at the PLAY position.)

2. Remove the three screws **B** fastening the TRAMECHA assembly and then remove the TRAMECHA assembly upwards from the front side.

3. At the same time, remove the spring from the groove of the CH. base assembly in the part **g** of the TRAMECHA assembly.

Note: When reinstalling the TRAMECHA assembly:
- Check to see if the spring is properly engaged with groove of the CH. base assembly in the part **g** of the TRAMECHA assembly.
- After making sure that the three insulators of the TRAMECHA assembly are properly set on the bosses of the L. base assembly's guide, fasten them with the screws.

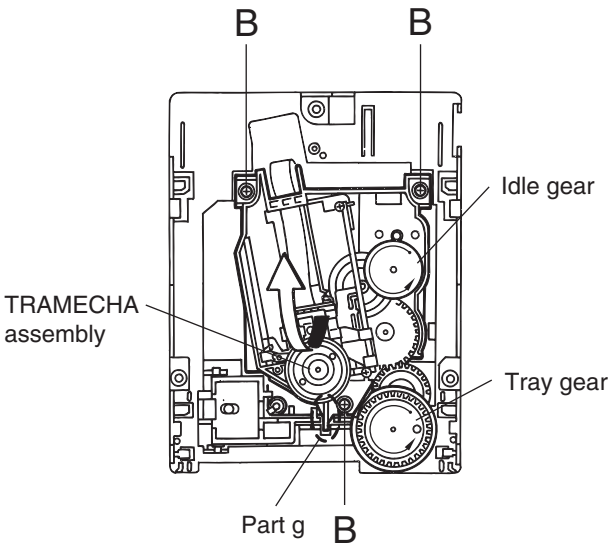


Fig. 6

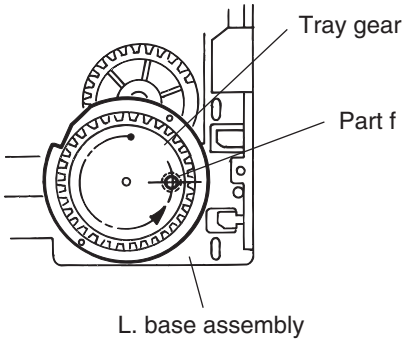


Fig. 7

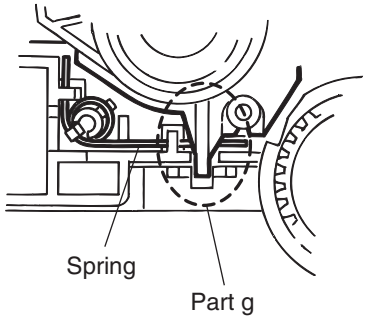


Fig. 8

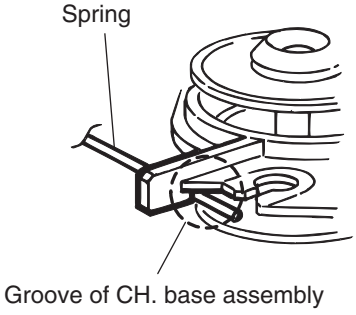


Fig. 9

■ Removing the Mechanism P.C. Board (Refer to Fig 10.)

Reference: The mechanism P.C. board can be removed without removal of the TRAMECHA assembly.

Note: Before disconnecting the flexible wire coming from the pickup from the connector, be sure to solder its shorting round.
If the flexible wire is connected without soldering, it may cause breakdown of the pickup.

1. Solder the shorting round of the flexible wire connected with the mechanism P.C. board from the back of the mechanism assembly.

2. Disconnect the flexible wire from the connector CN601 on the mechanism P.C. board.

3. Remove the three screws **C** fastening the mechanism P.C. board.

4. Unsolder the two points of the part **h** and one point of the part **i** of the mechanism P.C. board. Then, remove the mechanism P.C. board upwards.

Note: When reinstalling the mechanism P.C. board, connect the flexible wire coming from the pickup to the connector first and then remove the solder from the shorting round of the flexible cable.

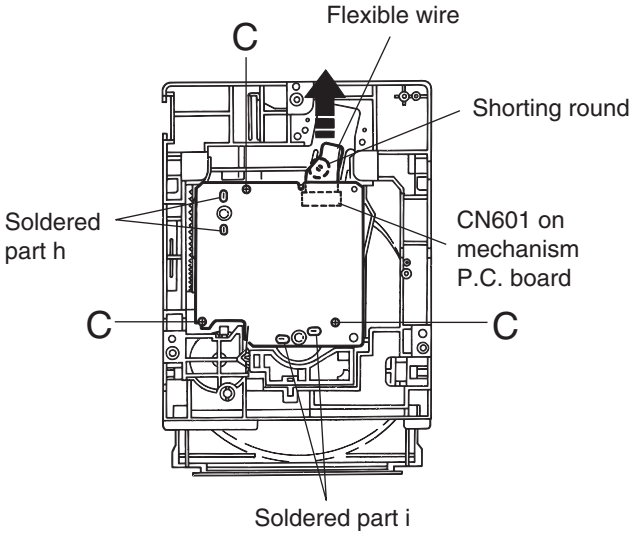


Fig. 10

■ Removing the Pickup (Refer to Figs. 11 to 14.)

- Remove the CL. base assembly and tray.
- Remove the TRAMECHA assembly.

Reference: The pickup can be removed without removal of the mechanism P.C. board.

Note: Before disconnecting the flexible wire coming from the pickup from the connector, be sure to solder its shorting round.
If the flexible wire is connected without soldering, it may cause breakdown of the pickup.

1. Solder the shorting round of the flexible wire connected with the mechanism P.C. board from the back of the TRAMECHA assembly.

2. Disconnect the flexible wire from the connector CN601 on the mechanism P.C. board.

3. Turn the idle gear in the arrow-marked direction from the top of the TRAMECHA assembly so that the pickup assembly is shifted to the reverse side of the T-T assembly.
Move the pickup assembly until the part **j** of the rack plate in the lower part of the pickup assembly comes out of the CH. base assembly.

4. Remove the two screws D retaining the shaft of the pickup assembly. Next, disengage the hook k from the CH. base assembly and then remove the pickup assembly together with the shaft.

5. Pull the shaft out of the pickup.

6. Remove the two screws **E** fastening the rack plate from the pickup.

7. Remove the screw **F** retaining the P.S. spring from the pickup.

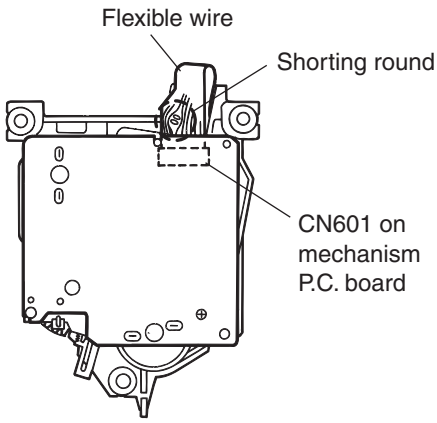


Fig. 11

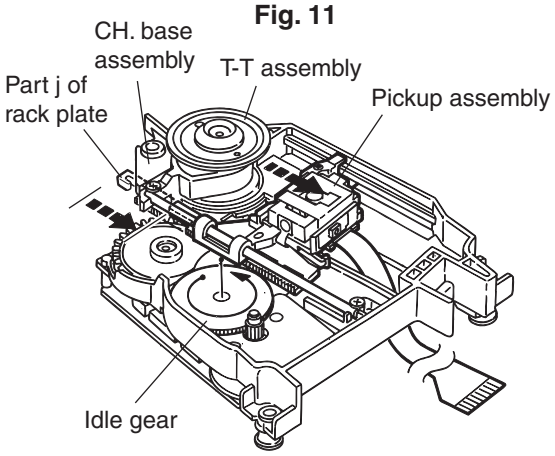


Fig. 12

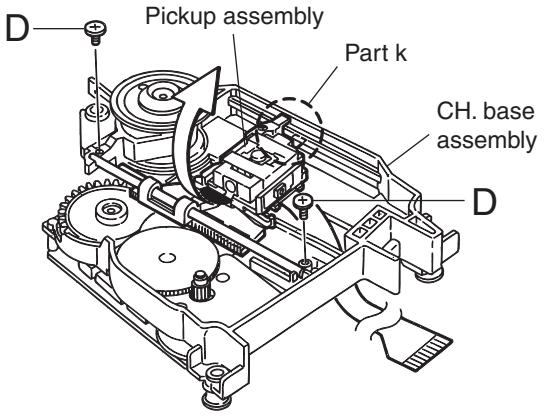


Fig. 13

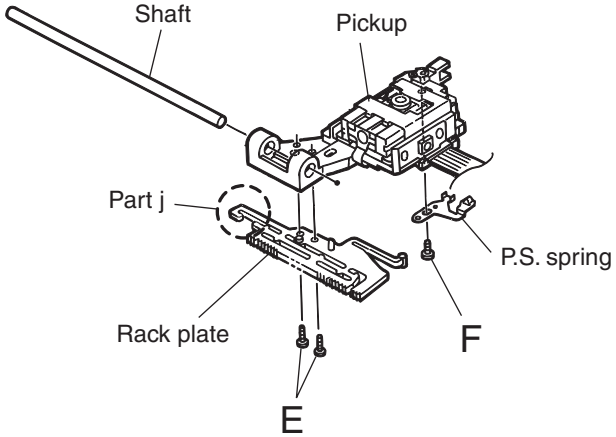


Fig. 14

■ Reinstalling the Pickup Assembly (Refer to Figs. 15 and 16.)

Reference: Refer to the explanation of "Removing the Pickup" on the preceding page.

1. Fit the P.S. spring and rack plate to the pickup.
2. Insert the shaft into the pickup.
3. Engage the hook **k** of the pickup assembly with the CH. base assembly first, and set the part **j** of the rack plate in the opening **l** next. Then, reinstall the pickup assembly while shifting it to the T-T side (inward) so that the part **m** of the rack plate is positioned as shown in Fig. 16.
4. Move the pickup assembly to the center position and fasten the shaft with the two screws **D**. (Make sure that the part **n** of the rack plate is correctly engaged with the middle gear.)
5. After passing the flexible wire coming from the pickup through the opening of the CH. base assembly, connect it to the connector CN601.

Note: When reinstalling the pickup assembly, remove the solder from the shorting round after connecting the flexible wire coming from the pick to the connector CN601.

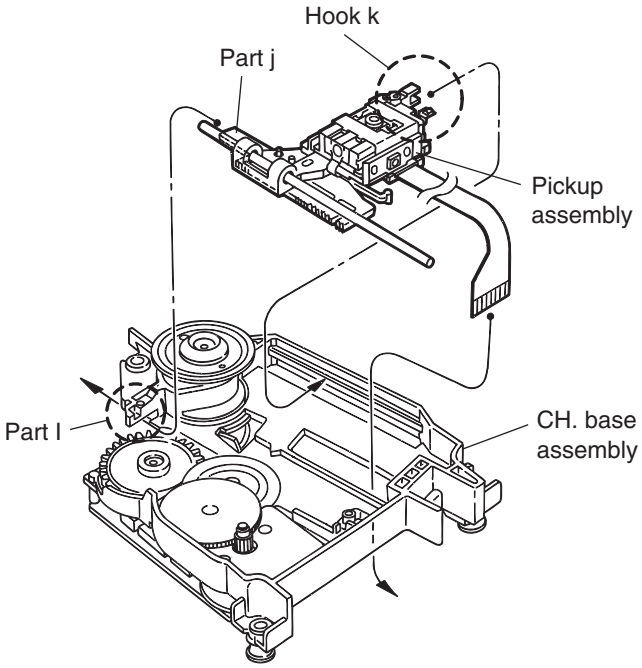


Fig. 15

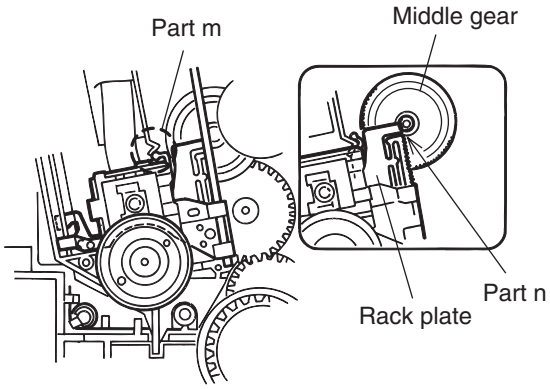


Fig. 16

■ Removing the Feed Motor Assembly (Refer to Fig. 17.)

- Remove the CL. base assembly and tray.
- Remove the mechanism P.C. board.

Remove the two screws **E** fastening the feed motor assembly from the top of the mechanism assembly.

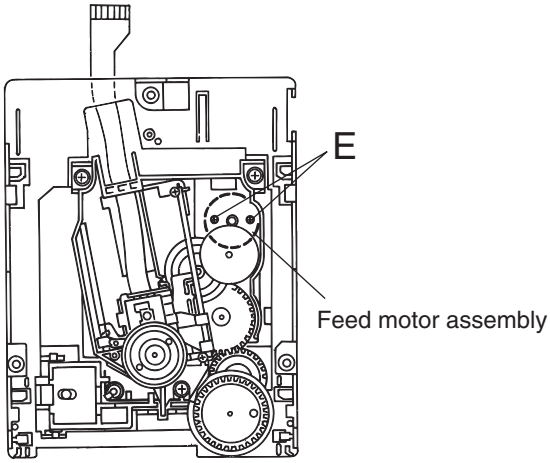


Fig. 17

Adjustment method

1. Jigs and test instruments

Laser power meter
Laser power meter sensor (or disk sensor)

2. CD check method

1. Remove the four screws retaining the top cover from the rear panel and the two screws retaining it from the left and right side panels.
2. Remove the two screws retaining the front cover from the rear side and the two screws retaining it from the bottom panel.
3. Remove the eight screws retaining the rear cover.
4. Remove the four screws retaining the sub chassis from the left and right sides.

(Caution)	**For details of the removal, see the previous section "Disassembly method".**

3. Adjustment and check items

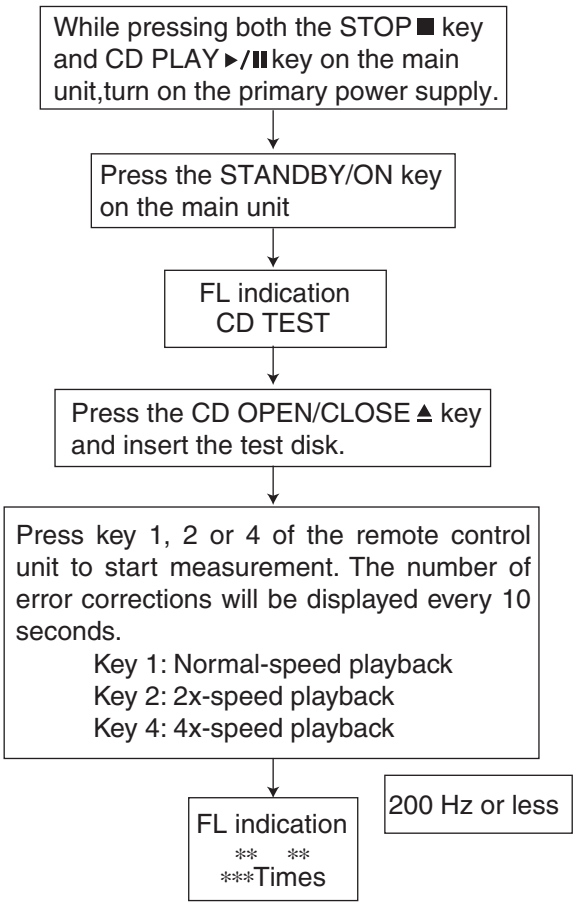
1) CD section

(1) Indication of the C1 error
(2) Cancel of the C1 error indication

4. Adjustment and check method

1) CD section

(1) Indication of the C1 error


While pressing both the STOP ■ key and CD PLAY ▶/II key on the main unit,turn on the primary power supply.
Press the STANDBY/ON key on the main unit
FL indication CD TEST
Press the CD OPEN/CLOSE ▲ key and insert the test disk.
Press key 1, 2 or 4 of the remote control unit to start measurement. The number of error corrections will be displayed every 10 seconds.
Key 1: Normal-speed playback
Key 2: 2x-speed playback
Key 4: 4x-speed playback
FL indication
** **
***Times
200 Hz or less

(2) Cancel of the C1 error indication
To cancel the C1 error indication, cut off the power supply.

Flow of functional operation until TOC read (CD)

Power ON → Play Key → Slider turns REST SW ON.

Check Point: Confirm that the voltage at the pin32 of IC251 is "H"\"L"\"H".

Slider turns REST SW ON.
↓
Automatic tuning of TE offset
↓
Laser ON
↓
Detection of disc
↓
Automatic tuning of Focus offset
↓
Automatic measurement of Focus S-curve amplitude → Confirm that the Focus error S-cuve signal at the pin28 of IC651 is approx.2Vp-p
↓
Disc is rotated → Confirm that the signal from pin24 IC651(R808) is 0V as a accelerated pulse during approx.400ms.
↓
Focus servo ON (Tracking servo ON)
↓
Automatic measurement of Tracking error amplitude → Confirm the waveform of the Tracking error signal. at the pin 20 of IC601 (R604) (See fig-1)
↓
Automatic tuning of Tracking error balance
↓
Automatic tuning of Focus error balance
↓
Automatic tuning of Focus error gain
↓
Automatic tuning of Tracking error gain
↓
TOC reading → Confirm the eys-pattern at the lead of TP1
↓
Play a disc

■ Tracking error waveform at TOC reading

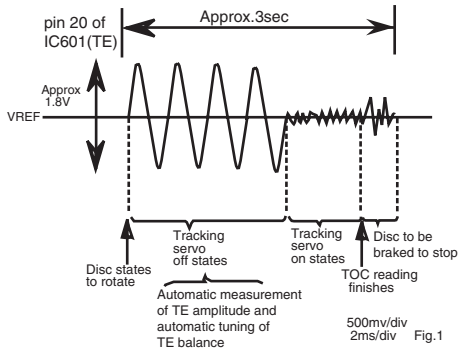


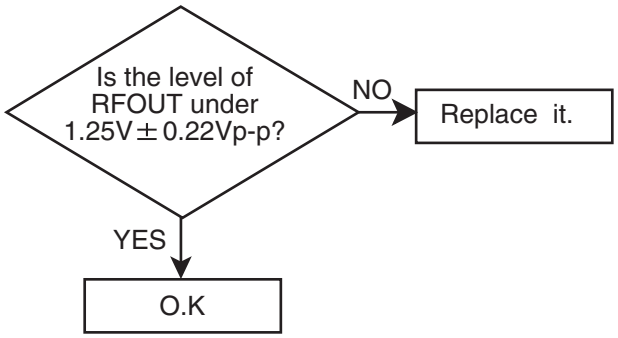
Fig.1

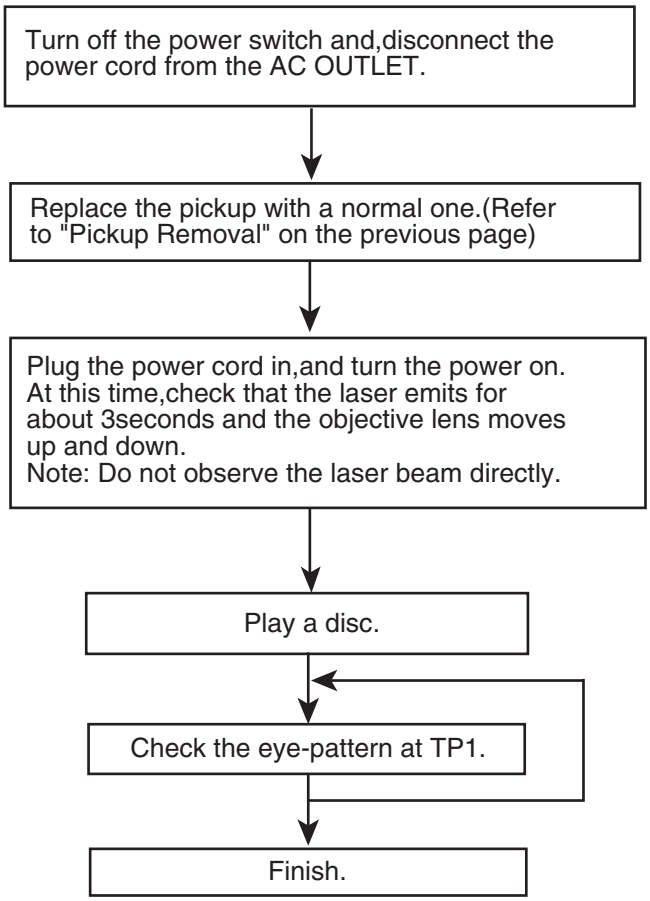
Maintenance of laser pickup (CD) Replacement of laser pickup (CD)

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

1. The level of RF output (EFM output:amplitude of eye pattern) will below.



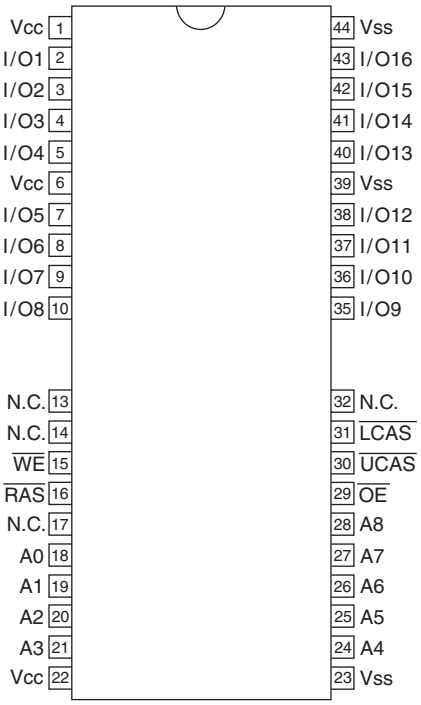

Turn off the power switch and,disconnect the power cord from the AC OUTLET.
Replace the pickup with a normal one.(Refer to "Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

(3) Semi-fixed resistor on the APC board
The semi-fixed resistor on the APC board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor would be adjusted when the pickup operates normally,the laser pickup may be damaged due to excessive current.

Description of major ICs

■ LC32V4265T-25 (IC911) : DRAM

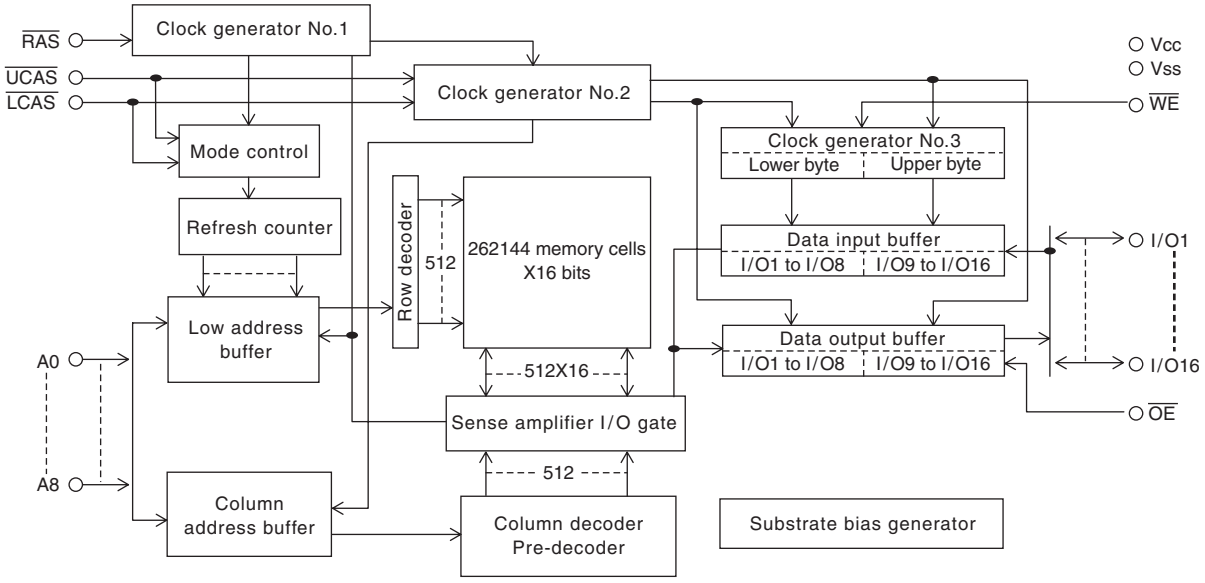
1. Pin layout



2. Pin function

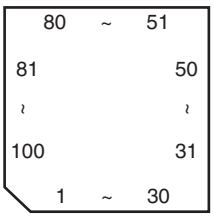
Symbol	Function
A0 to A8	Address input
$\overline{RAS}$	Low address strobe
$\overline{UCAS}$	Column address strobe (Upper byte control)
$\overline{LCAS}$	Column address strobe (L+K81ower byte control)
$\overline{WE}$	Write enable
$\overline{OE}$	Output enable
I/O1 to I/O16	Data I/O
Vcc	Power supply
Vss	Ground
N.C.	No connection

3. Block diagram

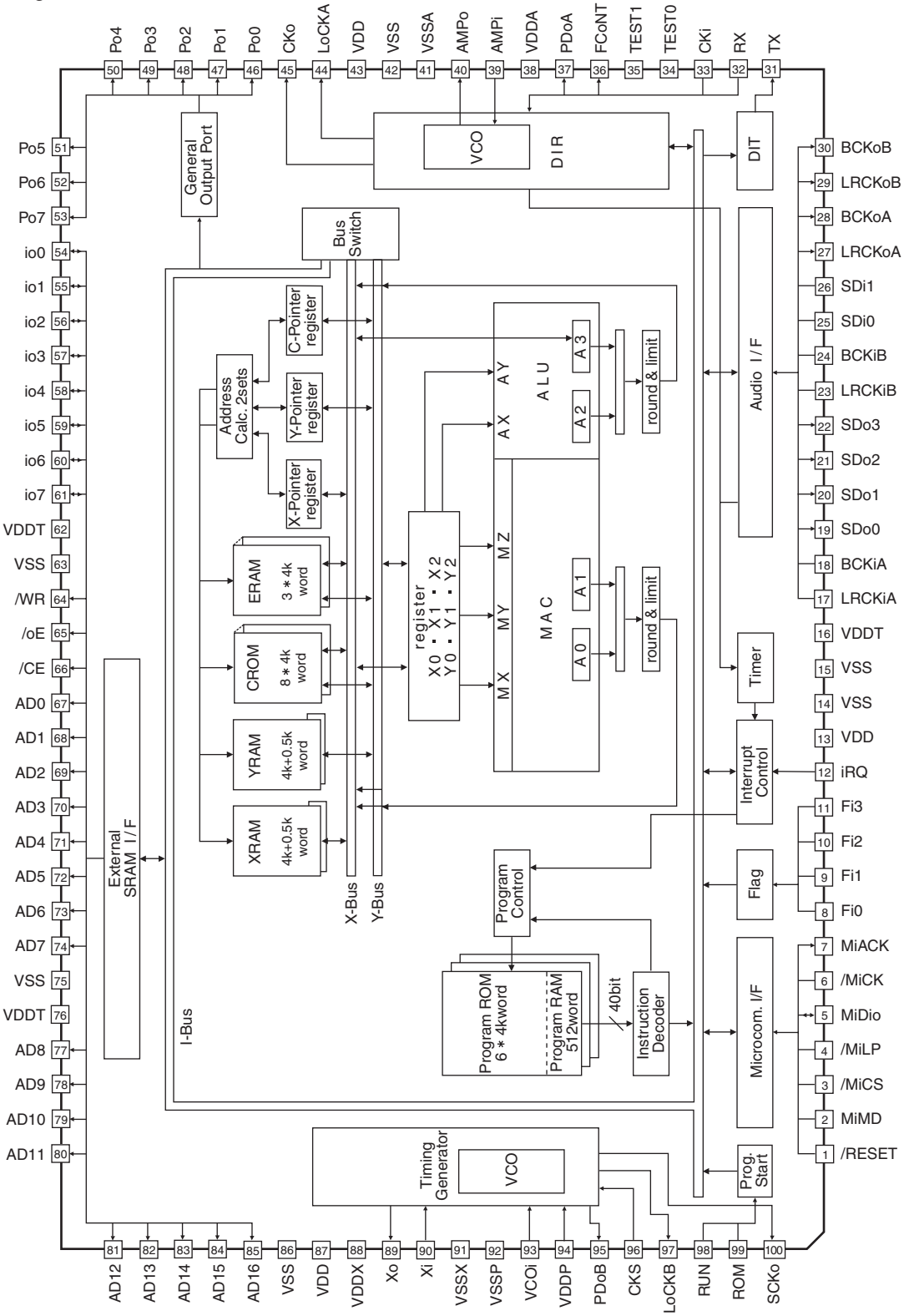


■ TC9486F-001 (IC930) : DSP

1. Pin layout



2. Block diagram



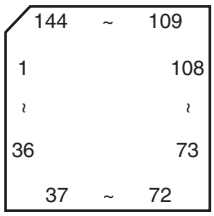
3. Pin function

Pin No.	Symbol	I/O	Function
1	/RST	I	Hard reset input terminal (L: reset H: general)
2	MiMD0	I	Micon I/F mode select input terminal (L: Serial H: I^2C)
3	/MiCS	I	Micon I/F chip select input terminal
4	/MiLP	I	Micon I/F latch pulse input
5	MiDio	I/O	Micon I/F data I/O terminal
6	/MiCK	I	Micon I/F clock input terminal
7	MiACK	O	Micon I/F acknowledge output terminal
8	Fi0	I	Flug input terminal 0
9	Fi1	I	Flug input terminal 1
10	Fi2	I	Flug input terminal 2
11	Fi3	I	Flug input terminal 3
12	IRQ0	I	Squeeze input terminal
13	VDD	-	Digital power supply terminal (2.5V)
14	VSS	-	Digital ground terminal
15	VSS	-	Digital ground terminal
16	VDDT	-	Digital power supply terminal (3.3V)
17	LRCKiA	I	LR clock input A
18	BCKiA	I	Bit clock input A
19	SDo0	O	Audio I/F data output terminal 0
20	SDo1	O	Audio I/F data output terminal 1
21	SDo2	O	Audio I/F data output terminal 2
22	SDo3	O	Audio I/F data output terminal 3
23	LRCKiB	I	LR clock input B
24	BCKiB	I	Bit clock input B
25	SDi0	I	Audio I/F data input terminal 0
26	SDi1	I	Audio I/F data input terminal 1
27	LRCKoA	O	LR clock output terminal A
28	BCKoA	O	Bit clock output terminal A
29	LRCKoB	O	LR clock output terminal B
30	BCKoB	O	Bit clock output terminal B
31	TX	O	SPDIF output terminal
32	RX	I	SPDIF input terminal
33	Cki	I	Outside clock input terminal
34	TEST0	I	Test input terminal 0 (H: test L: general)
35	TEST1	I	Test input terminal 1 (H: test L: general)
36	FCoNT	-	PLL frequency control output terminal for DIR
37	PDoA	-	PLL phase error signal output
38	VDDA	-	PLL power supply terminal (2.5V) for DIR
39	AMPiA	I	PLL filter amp input terminal for DIR
40	AMPoA	O	PLL filter amp output terminal for DIR
41	VSSA	-	PLL ground terminal for DIR
42	VSS	-	Digital ground terminal
43	VDD	-	Digital power supply terminal (2.5V)
44	LoCKA	O	DIR lock output terminal
45	Cko	O	DIR clock output terminal
46	Po0	O	General output terminal 0
47	Po1	O	General output terminal 1
48	Po2	O	General output terminal 2
49	Po3	O	General output terminal 3
50	Po4	O	General output terminal 4

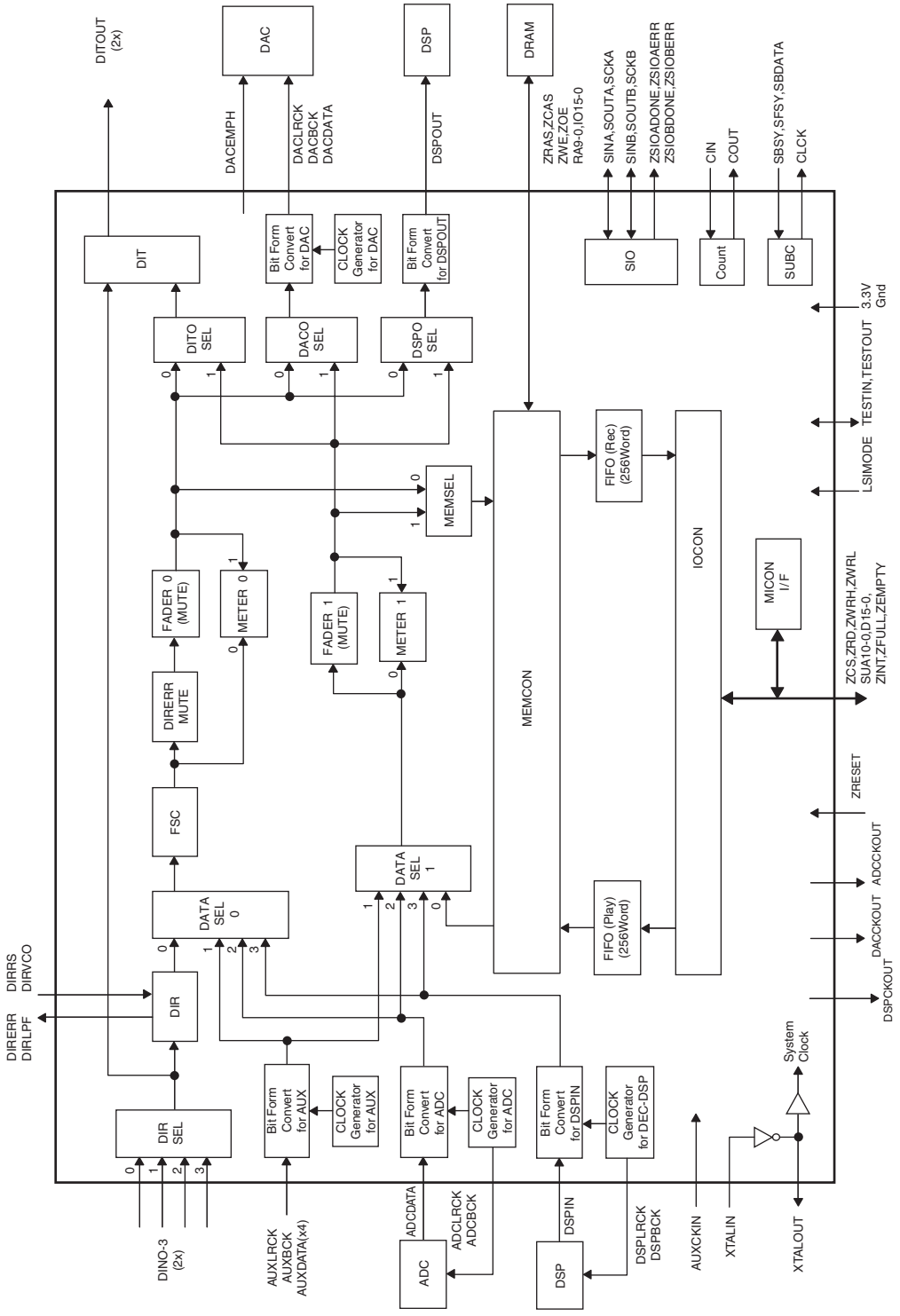
Pin No.	Symbol	I/O	Function
51	Po5	O	General output terminal 5
52	Po6	O	General output terminal 6
53	Po7	O	General output terminal 7
54	Io0	I/O	Outside SRAM data I/O terminal 0
55	Io1	I/O	Outside SRAM data I/O terminal 1
56	Io2	I/O	Outside SRAM data I/O terminal 2
57	Io3	I/O	Outside SRAM data I/O terminal 3
58	Io4	I/O	Outside SRAM data I/O terminal 4
59	Io5	I/O	Outside SRAM data I/O terminal 5
60	Io6	I/O	Outside SRAM data I/O terminal 6
61	Io7	I/O	Outside SRAM data I/O terminal 7
62	VDDT	-	Digital ground terminal (3.3V)
63	VSS	-	Digital ground terminal
64	/WR	O	Outside SRAM write signal
65	/OE	O	Outside SRAM output enable signal output terminal
66	/CE	O	Outside SRAM chip enable signal output terminal
67	AD0	O	Outside SRAM addess output terminal 0
68	AD1	O	Outside SRAM addess output terminal 1
69	AD2	O	Outside SRAM addess output terminal 2
70	AD3	O	Outside SRAM addess output terminal 3
71	AD4	O	Outside SRAM addess output terminal 4
72	AD5	O	Outside SRAM addess output terminal 5
73	AD6	O	Outside SRAM addess output terminal 6
74	AD7	O	Outside SRAM addess output terminal 7
75	VSS	-	Digital ground
76	VDDT	-	Digital power supply (3.3V)
77	AD8	O	Outside SRAM address output terminal 8
78	AD9	O	Outside SRAM address output terminal 9
79	AD10	O	Outside SRAM address output terminal 10
80	AD11	O	Outside SRAM address output terminal 11
81	AD12	O	Outside SRAM address output terminal 12
82	AD13	O	Outside SRAM address output terminal 13
83	AD14	O	Outside SRAM address output terminal 14
84	AD15	O	Outside SRAM address output terminal 15
85	AD16	O	Outside SRAM address output terminal 16
86	VSS	-	Digital ground
87	VDD	-	Digital power supply (2.5V)
88	VDDX	-	Power supply terminal (2.5V) for oscillation
89	Xo	O	Oscillate connect terminal (Output)
90	Xi	I	Oscillate connect terminal (Input)
91	VSSX	-	Ground for oscillation
92	VSSP	-	Ground for VCO
93	VCOi	-	Voltage control input terminal for VCO
94	VDDP	-	Power supply for VCO
95	PDoB	-	PLL phase error signal output
96	CKS	I	VCO select (H: VCO L: XI input)
97	LoCKB	O	PLL clock output
98	RUN	I	Program ROM boot control terminal 0
99	ROM	I	Program ROM boot control terminal 1
100	SCKo	O	System clock output

■ LC895871 (IC910) : Digital audio I / F input and output

1. Pin layout



2. Block diagram

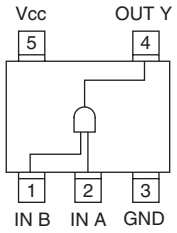


3. Pin function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	DVss	-	Digital Vss	55	DVss	-	Digital Vss
2	IO0	-	Buffer RAM Data lines with Pull-Up register	56	D15	-	Microcontroller Data lines with Pull Up register
3	IO1	-					
4	IO2	-		57	ZCS	I	Chip Sellect signal from Microcontroller
5	IO3	-					
6	IO4	-		58	ZRD	I	Read signal from Microcontroller
7	IO5	-		59	ZWRH	I	Write (Upper 8 bits) signal from Microcontroller
8	IO6	-					
9	IO7	-		60	ZWRL	I	Write (Lower 8 bits) signal from Microcontroller
10	IO8	-					
11	IO9	-		61	SUA0	I	Command register selection address
12	IO10	-		62	SUA1	I	
13	IO11	-		63	SUA2	I	
14	IO12	-		64	SUA3	I	
15	IO13	-		65	SUA4	I	
16	IO14	-		66	SUA5	I	
17	IO15	-		67	SUA6	I	
18	DVdd	-	Digital 3.3V	68	SUA7	I	
19	DVss	-	Digital Vss	69	SUA8	I	
20	ZRAS	O	RAS signal output for Buffer RAM	70	SUA9	I	
				71	SUA10	I	
21	ZCAS	O	CAS signal output for Buffer RAM	72	DVss	-	Digital Vss
				73	DVdd	-	3.3V Microcontroller I/F Power supply
22	ZWE	O	Write Enable signal output for Buffer RAM				
				74	ZINT	O	Interrupt request output to Microcontroller
23	ZOE	O	Read Enable signal output for Buffer RAM				
				75	ZFULL	O	Interrupt request output to Microcontroller (FIFO Read)
24	RA0	O	Address lines for Buffer RAM				
25	RA1	O		76	ZEMPTY	O	Interrupt request output to Microcontroller (FIFO Write)
26	RA2	O					
27	RA3	O		77	ZSIOADON	O	Interrupt request output to Microcontroller (Serial IO port 0)
28	RA4	O					
29	RA5	O		78	ZSIOAERR	O	
30	RA6	O					
31	RA7	O		79	ZSIOBDON	O	Interrupt request output to Microcontroller (Serial IO port 1)
32	RA8	O					
33	RA9	O		80	ZSIOBERR	O	
34	LSIMODE	I	LSI mode input				
35	DVdd	-	3.3V DRAM I/F Power supply (Same as External RAM)	81	DVdd	-	Digital 3.3V
				82	DVss	-	Digital Vss
36	DVss	-	Digital Vss	83	ZRESET	I	RESET
37	DVdd	-	Digital 3.3V	84	SINA	I	Serial IO input (port 0)
38	DVss	-	Digital Vss	85	SOUTA	O	Serial IO output (port 0)
39	D0	-	Microcontroller Data lines with Pull Up register	86	SCKA	-	Serial IO Clock (port 0)
40	D1	-		87	SINB	I	Serial IO input (port 1)
41	D2	-		88	SOUTB	O	Serial IO output (port 1)
42	D3	-		89	SCKB	-	Serial IO Clock (port 1)
43	D4	-		90	DVdd	-	3.3V DSP I/F Power supply (Same as DSP,SIO Power supply)
44	D5	-					
45	D6	-		91	DVss	-	Digital Vss
46	D7	-		92	CIN	I	Count input for Counter
47	D8	-		93	COUT	O	Count output for Counter
48	D9	-		94	DSPIN	I	Serial data input for DSP
49	D10	-		95	DSPLRCK	O	LRCK output for DSP
50	D11	-		96	DSPBCK	O	BCK output for DSP
51	D12	-		97	DSPOUT	O	Serial data output for DSP
52	D13	-		98	DSPCKOUT	O	Clock output for DSP (33.8688MHz or 16.9344MHz)
53	D14	-					
54	DVdd	-	3.3V Microcontroller I/F Power supply (Same as Microcontroller Power supply)	99	ADCLRCK	O	LRCK output for ADC
				100	ADCBCK	O	BCK output for ADC
				101	ADCDATA	I	Serial data output for ADC

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
102	DACLRCK	O	LRCK output for DAC	123	SFSY	I	Frame Sync signal for SUBCODE
103	DACBCK	O	BCK output for DAC	124	SBDATA	I	Data input signal for SUBCODE
104	DACDATA	O	Serial data output for DAC	125	CLCK	O	Data Clock output signal for SUBCODE
105	DACEMPH	O	Emphasis output for DAC				
106	DACCKOUT	O	Clock output for DAC (33.8688MHz or 16.9344MHz)	126	DVdd	-	Digital 3.3V
				127	DVss	-	Digital Vss
107	ADCCKOUT	O	Clock output for ADC (33.8688MHz or 16.9344MHz)	128	DVss	-	Digital Vss
				129	DVdd	-	Digital 3.3V (for IO)
108	DVss	-	Digital Vss	130	DITOUT	O	DIT data output
109	DVdd	-	3.3V AD I/F Power supply (Same as AD/DA Power supply)	131	DIN0	I	Digital Audio I/F inputs
				132	DIN1	I	
110	DVdd	-	Digital 3.3V	133	DIN2	I	
111	DVss	-	Digital Vss	134	DIN3	I	
112	XTALIN	I	Crystal oscillator circuit input (33.8688MHz)	135	DIRERR	O	DIR-PLL Lock, DIR Data Error output
113	XTALOUT	O	Crystal oscillator circuit output	136	DIRRS	I	VCO Gain controll input
114	DVss	-	Digital Vss	137	DIRVCO	I	VCO Free Run oscillator frequency controll input
115	DVdd	-	Digital 3.3V (for IO)				
116	AUXCKIN	I	External Clock input (33.8688MHz)	138	DIRLPF	O	Loop filter setting
				139	NC	-	No Connect (Must be Open)
117	AUXLRCK	I	External LRCK input	140	AVdd	-	Analog 3.3V (for DIR)
118	AUXBCK	I	External BCK input	141	AVss	-	Analog Vss (for DIR)
119	AUXDATA	I	External Serial data input	142	DVss	-	Digital Vss
120	TESTIN	I	TEST input	143	DVdd	-	Digital 3.3V
121	TESTOUT	O	TEST output	144	DVdd	-	3.3V DRAM I/F Power supply (Same as External DRAM)
122	SBSY	I	Block Sync signal for SUBCODE				

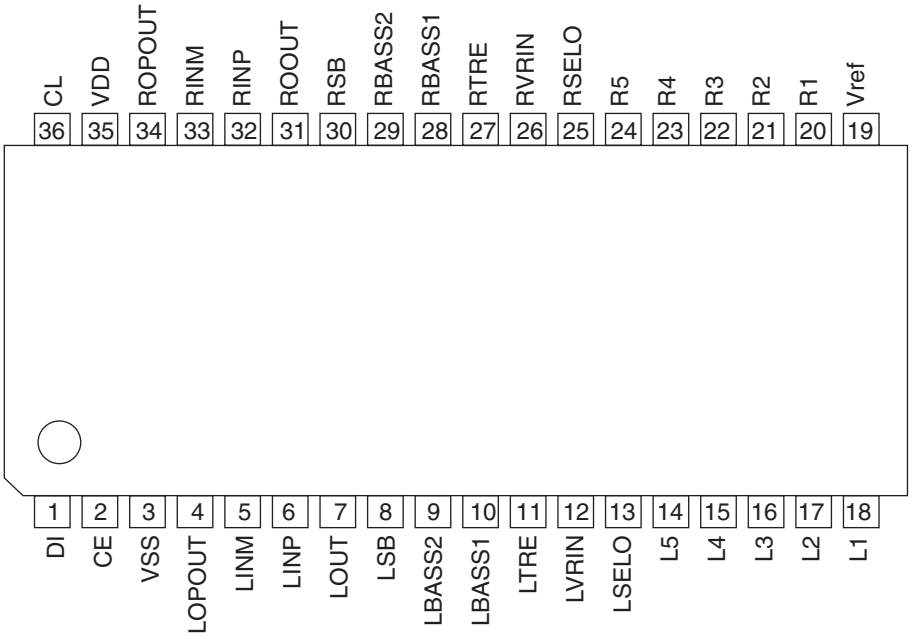
■ TC7SA08FU-X (IC931) : 2-input and gate



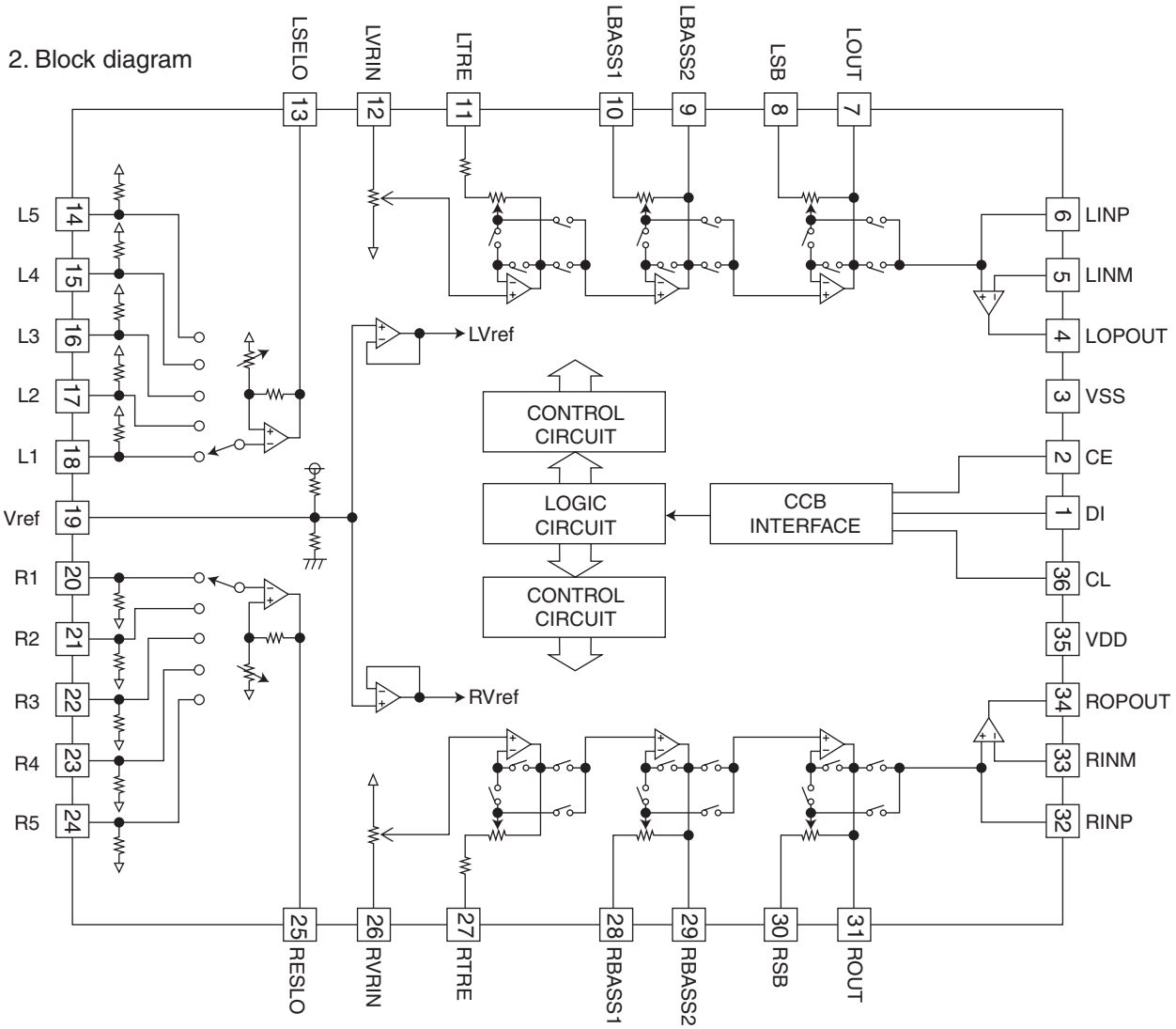
INPUTS		OUTPUTS
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

■ LC75345M-X (IC302) : E.volume

1. Pin layout



2. Block diagram

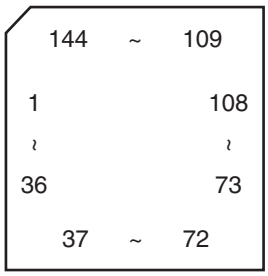


3. Pin function

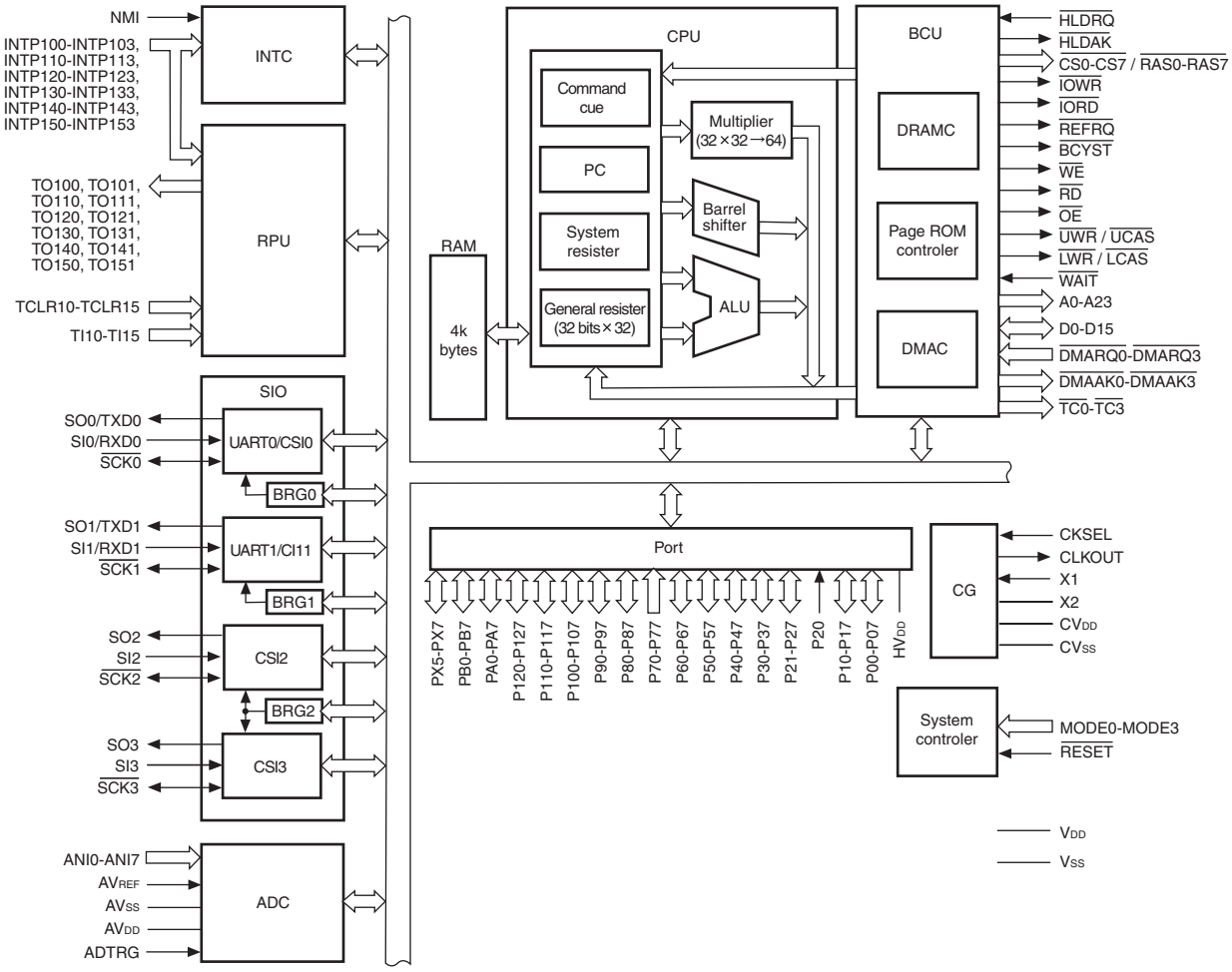
Pin No.	Symbol	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin.
3	VSS	Ground pin.
4	LOPOUT	Output pin of general-purpose operation amplifier.
5	LINM	Non-inverted input pin of general-purpuse operation amplifier.
6	LINP	Non-inverted input pin of general-purpuse operation amplifier.
7	LOUT	ATT + equalizer output pin.
8	LSB	Capacitor and resistor connection pin comprising filters for bass and super-bass band.
9	LBASS2	Capacitor and resistor connection pin comprising filters for bass and super-bass band.
10	LBASS1	Capacitor and resistor connection pin comprising filters for bass and super-bass band.
11	LTRE	Capacitor and resistor connection pin comprising treble band filter.
12	LVRIN	Volume input pin.
13	LSELO	Input selector output pin.
14	L5	Input signal pin.
15	L4	Input signal pin.
16	L3	Input signal pin.
17	L2	Input signal pin.
18	L1	Input signal pin.
19	Vref	0.5 x VDD voltage generation block for analog ground.
20	R1	Input signal pin.
21	R2	Input signal pin.
22	R3	Input signal pin.
23	R4	Input signal pin.
24	R5	Input signal pin.
25	RSELO	Input selector output pin.
26	RVRIN	Volume input pin.
27	RTRE	Capacitor connection pin comprising treble band filter.
28	RBASS1	Capacitor and resistor connection pin comprising filter for bass and super-bass band.
29	RBASS2	Capacitor and resistor connection pin comprising filter for bass and super-bass band.
30	RSB	Capacitor and resistor connection pin comprising filter for bass and super-bass band.
31	ROUT	ATT + equalizer output pin.
32	RINP	Non inverted input pin of general-purpose operation amplifier.
33	RINM	Non inverted input pin of general purpose operation amplifier.
34	ROPOUT	Output pin of general-purpose operation amplifier.
35	VDD	Supply pin.
36	CL	Serial data and clock input pin for control.

■ UPD703100AGJ-33 (IC940) : MOS

1. Pin layout



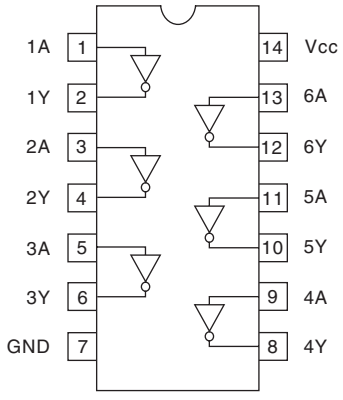
2. Block diagram



3. Pin function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1,2	P07,P06	I/O	Port 0	58~61	P113~P110	I/O	Port 11
3	$\overline{\text{DMARQ1}}$	I	DMA Request	62	CVDD	-	Clock generator power supply
4	$\overline{\text{DMARQ0}}$	I	DMA Request	63	X2	-	Crystal
5~8	P03~P00	I/O	Port 0	64	X1	I	Crystal
9	VSS	-	Ground	65	CVSS	-	Clock generator ground
10	INTP113	I	Interrupt request from peripherals	66	CKSEL	I	Clock generator operating mode select
11	INTP112	I	Interrupt request from peripherals	67~70	MODE0~3	I	Mode
12	$\overline{\text{DMAAK1}}$	O	DMA acknowledge	71	$\overline{\text{RESET}}$	I	Reset
13	$\overline{\text{DMAAK0}}$	O	DMA acknowledge	72~74	P127~P125	I/O	Port 12
14~17	P13~P10	I/O	Port 1	75	INTP150	I	Interrupt request from peripherals
18~21	INTP123~120	I	Interrupt request from peripherals	76~79	P123~P120	I/O	Port 12
22~25	P103~P100	I/O	Port 10	80	PX7	I/O	Port X
26~33	P77~P70	I	Port 7	81	$\overline{\text{WAIT}}$	I	Wait
34	AVDD	-	Analog power supply	82	PX5	I/O	Port X
35	GND	-	Ground	83	VSS	-	Ground
36	AVREF	I	Analog reference voltage	84~86	P97~P95	I/O	Port 9
37	NMI	I	Non-Maskable interrupt request	87	$\overline{\text{BCYST}}$	O	Bus cycle start timing
38	P21	I/O	Port 2	88	P93	I/O	Port 9
39	SO0	O	Serial output	89	$\overline{\text{RD}}$	O	Read
40	SI0	I	Serial input	90	$\overline{\text{UWR}}$	O	Upper write strobe
41	$\overline{\text{SCK0}}$	I/O	Serial clock	91	$\overline{\text{LWR}}$	O	Lower write strobe
42	TXD1	O	Transmit data	92~99	$\overline{\text{CS7}}$~$\overline{\text{CS0}}$	O	Chip select
43	RXD1	I	Receive data	100	HVDD	-	Power supply for external pins
44	P27	I/O	Port 2	101~104	P67~P64	I/O	Port 6
45	VDD	-	Power supply for internal unit	105~116	A19~A8	O	Address bus
46	$\overline{\text{SCK2}}$	I/O	Serial clock	117	VSS	-	Ground
47	SI2	I	Serial input	118~125	A7~A0	O	Address bus
48	SO2	O	Serial output	126	HVDD	-	Power supply for external pins
49~53	P34~P30	I/O	Port 3	127~134	D15~D8	I/O	Data bus
54	$\overline{\text{SCK3}}$	I/O	Serial clock	135	VSS	-	Ground
55	SI3	I	Serial input	136~143	D7~D0	I/O	Data bus
56	SO3	O	Serial output	144	VDD	-	Power supply for internal unit
57	INTP140	I	Interrupt request from peripherals				

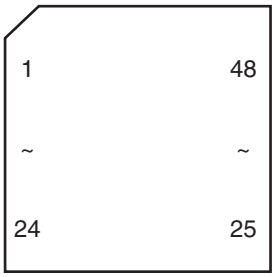
■ TC74LCX04FT-X (IC960) : Low voltage hex inverter



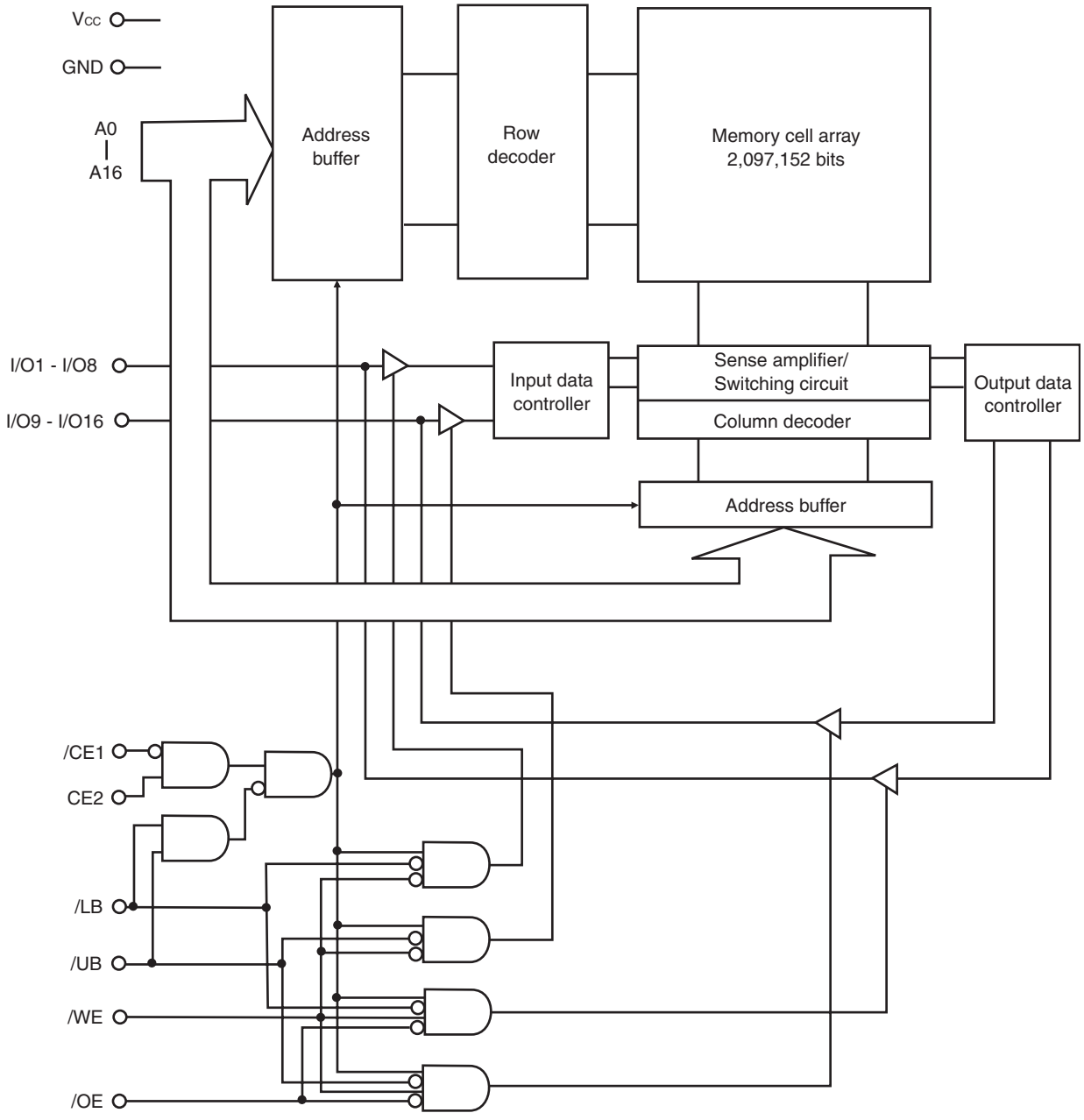
INPUTS	OUTPUTS
A	Y
L	H
H	L

■ UPD442012AGYC70 (IC951) : 2M-bit cmos static ram

1. Pin layout



2. Block diagram

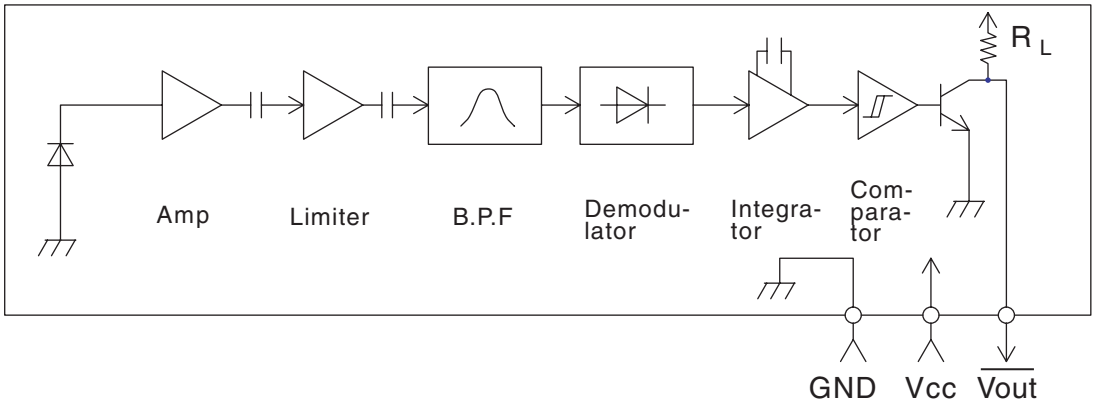


3. Pin function

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1~8	A15~A8	Address inputs	33	I/O3	Data inputs/outputs
9,10	NC	No Connection	34	I/O11	Data inputs/outputs
11	/WE	Write Enable	35	I/O4	Data inputs/outputs
12	CE2	Chip Enable 2	36	I/O12	Data inputs/outputs
13	IC	Internal Connection	37	Vcc	Power supply
14	/UB	Byte data select	38	I/O5	Data inputs/outputs
15	/LB	Byte data select	39	I/O13	Data inputs/outputs
16,17	NC	No Connection	40	I/O6	Data inputs/outputs
18~25	A7~A0	Address inputs	41	I/O14	Data inputs/outputs
26	/CE1	Chip Enable 1	42	I/O7	Data inputs/outputs
27	GND	Ground	43	I/O15	Data inputs/outputs
28	/OE	Output Enable	44	I/O8	Data inputs/outputs
29	I/O1	Data inputs/outputs	45	I/O16	Data inputs/outputs
30	I/O9	Data inputs/outputs	46	GND	Ground
31	I/O2	Data inputs/outputs	47	NC	No Connection
32	I/O10	Data inputs/outputs	48	A16	Address inputs

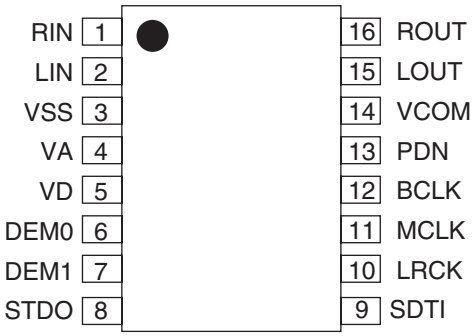
■GP1UM271XK (IC721) : Dual operation amplifier

1. Block diagram



■ AK4552VT-X (IC904) : ADC / DAC

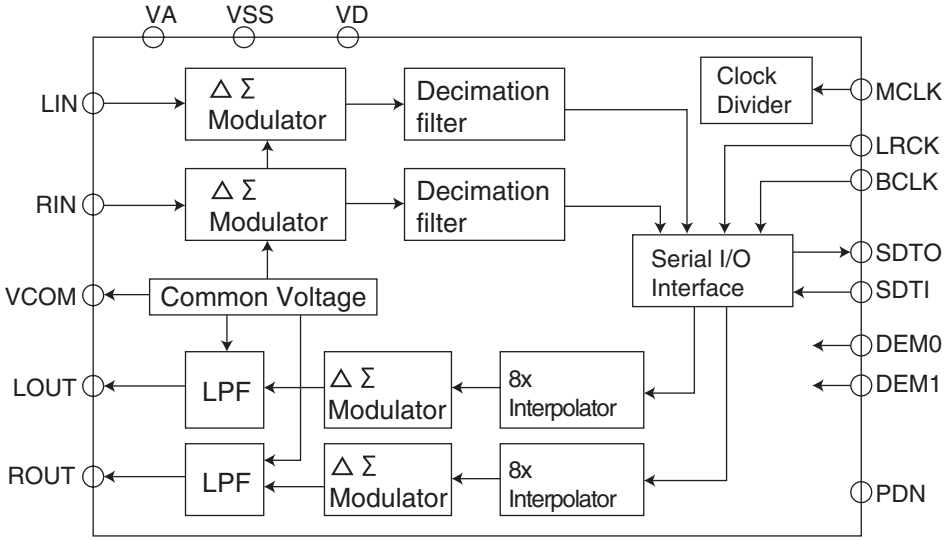
1. Pin layout



2. Pin function

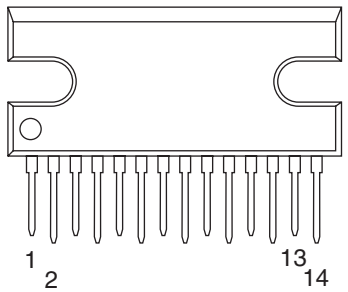
PIN No.	Symbol	I/O	Function
1	RIN	I	Rch analog input terminal
2	LIN	I	Lch analog input terminal
3	VSS	-	Ground terminal
4	VA	-	Analog power terminal
5	VD	-	Digital power terminal
6	DEM0	I	De Emphasis control terminal
7	DEM1	I	De Emphasis control terminal
8	SDTO	O	Audio serial data output terminal
9	SDTI	I	Audio serial data input terminal
10	LRCK	I	L/R channel clock terminal
11	MCLK	I	Master clock input terminal
12	BCLK	I	Audio serial data clock terminal
13	PDN	I	ADC & DAC power down & reset mode terminal
14	VCOM	O	Common voltage output terminal 0.45xVA
15	LOUT	O	Lch analog output terminal
16	ROUT	O	Rch analog output terminal

3. Block diagram

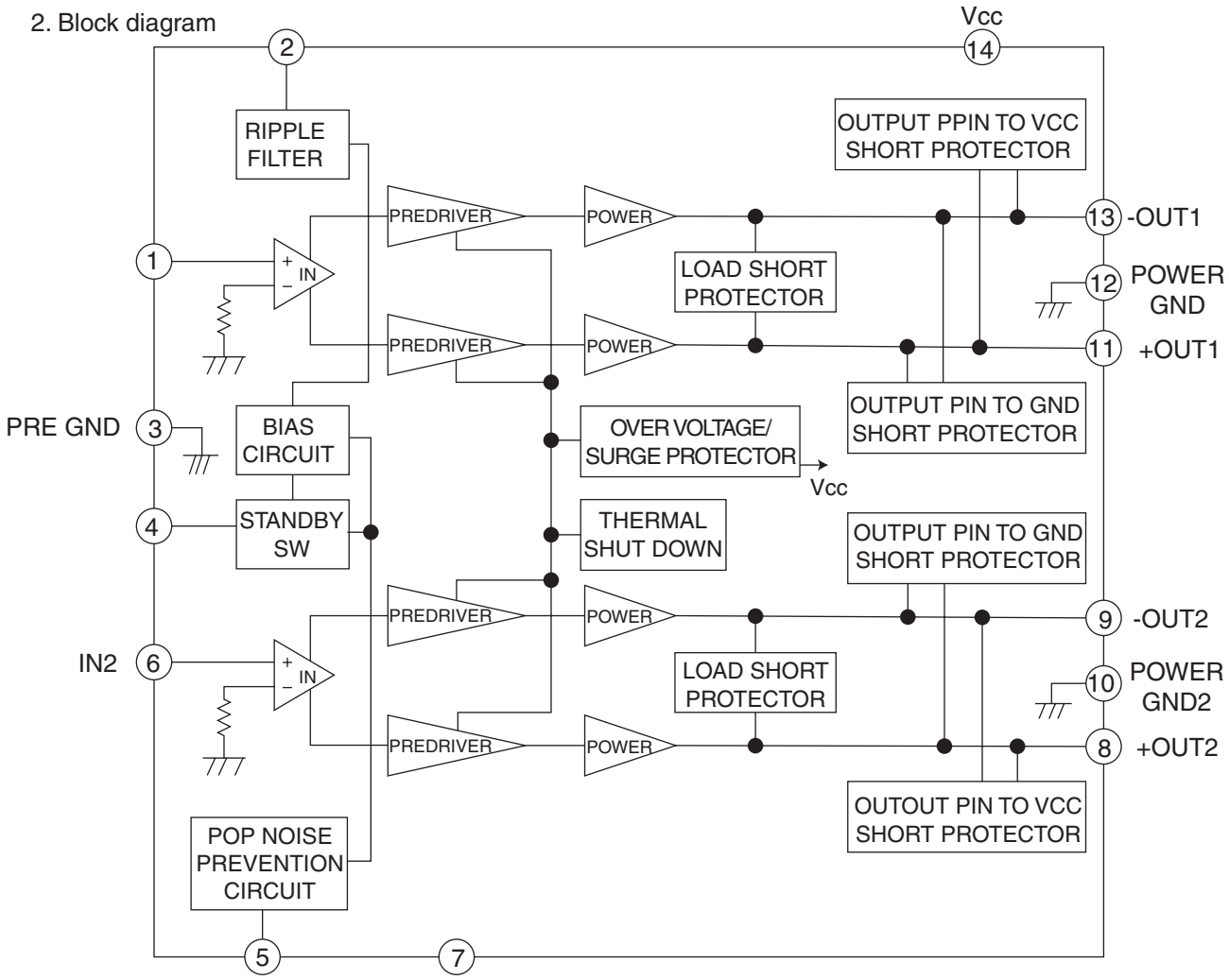


■ LA4628 (IC301) : Power amp.

1. Pin layout

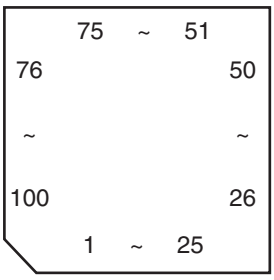


2. Block diagram



■ MN101C49HJT (IC801) : System micon

1. Pin layout

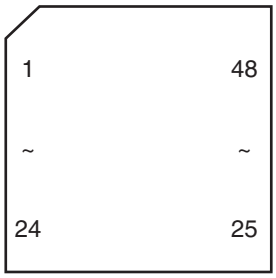


2. Pin function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	A/D GND	-	A/D GND	51	TUNER SCK	O	TUNER SERIAL CLOCK
2	KEY1	I	KEY1 (A/D)	52	TUNER PERIOD	O	TUNER PLL STROBE
3	KEY2	I	KEY2 (A/D)	53	$\overline{\text{MPX}}$	I	TUNER $\overline{\text{MPX}}$ (STEREO)
4	GND	I	[L]	54	OPEN	I	[L]
5	GND	I	[L]	55	KBDATAI	I	Data Input
6	SAFETY1	I	5V SAFETY DETECT	56	KBDATAO	O	Data Output
7	SAFETY2	I	9V SAFETY DETECT	57	OPEN	O	[L]
8	GND	I	[L]	58	OPEN	O	[L]
9	SAFETY3	I	8V SAFETY DETECT	59	$\overline{\text{SMUTE}}$	O	$\overline{\text{source mute}}$
10	AD POWER	-	A/D power (=Vdd)	60	$\overline{\text{LINE OUT MUTE}}$	O	$\overline{\text{line out mute}}$
11	Vdd	-	Vdd	61	$\overline{\text{STANBY}}$	O	$\overline{\text{STANDBY}}$
12	OSC2	O	MAIN SYSTEM CLOCK 8.00MHz	62	OPEN	O	[L]
13	OSC1	I	MAIN SYSTEM CLOCK 8.00MHz	63	OPEN	O	[L]
14	GND	-	GND	64	OPEN	O	[L]
15	XI	I	SUB SYSTEM CLOCK 32.768KHz	65	$\overline{\text{AHB}}$	O	$\overline{\text{ON}}$/OFF
16	XO	O	SUB SYSTEM CLOCK 32.768KHz	66	VCE	O	CHIP ENABLE
17	NMOD	I	GND	67	VCLK	O	CLOCK
18	BEAT	O	BEAT CUT (MAIN CLOCK SHIFT)	68	VDATA	O	DATA OUT
19	OPEN	O	[L]	69	POWER	O	power
20	OPEN	O	[L]	70	TR SW	O	Tr. Switch
21	KCMD	O	KCMND	71	OPEN	O	[L]
22	MSTAT	I	MSTAT	72	OPEN	O	[L]
23	CD CLOCK	O	KCLK	73	OPEN	O	[L]
24	$\overline{\text{CD RESET}}$	O	$\overline{\text{reset}}$	74	OPEN	O	[L]
25	KBON	O	KEYBORD ON	75	OPEN	O	[L]
26	$\overline{\text{RM IN}}$	I	$\overline{\text{remocon in}}$	76	OPEN	O	[L]
27	$\overline{\text{HD\_READY}}$	I	$\overline{\text{READY}}$	77	OPEN	O	[L]
28	GND	I	[L]	78	$\overline{\text{PRT}}$	I	SPK DC DETECT
29	CD REQUEST	I	MRDY	79	VOL IND	O	VOLUME (BLUE)
30	KBCLK	I	KEYBORD CLOCK	80	$\overline{\text{INH}}$	I	$\overline{\text{INH}}$
31	RDSCK	I	RDS CLOCK IN	81	HD REC IND	O	HD REC (RED)
32	GND	I	[L]	82	BAND-0	I	band-0 (CHIP SELECT)
33	$\overline{\text{HARD RESET}}$	I	hard $\overline{\text{reset}}$	83	BAND-1	I	band-1 (CHIP SELECT)
34	HD RESET	O	HD $\overline{\text{reset}}$	84	STANDBY IND	O	STANDBY (RED)
35	$\overline{\text{HD REQ}}$	O	$\overline{\text{REQUEST}}$	85	POWER IND	O	POWER (GREEN)
36	RDSDI	I	RDS DATA IN	86	FTU	O	FUNCTION TUNER
37	CONTRAST1	O	CONTRAST ADJUST1	87	HD PLAY IND	O	HD PLAY (BLUE)
38	CONTRAST2	O	CONTRAST ADJUST2	88	OPEN	O	[L]
39	CONTRAST3	O	CONTRAST ADJUST3	89	OPEN	O	[L]
40	FAN SW	O	FAN MORTOR ON/OFF	90	OPEN	O	[L]
41	FCD	O	FUNCTION CD	91	OPEN	O	[L]
42	HD TX	O	TX	92	OPEN	O	[L]
43	HD RX	I	RX	93	OPEN	O	[L]
44	HD CLK	O	CLOCK	94	OPEN	O	[L]
45	LCD SDA	O	LCD DATA OUT	95	DAVss	-	DAVss
46	LCD $\overline{\text{CS}}$	O	LCD CHIP SELECT	96	OPEN	O	[L]
47	LCD SCL	O	LCD CLOCK	97	OPEN	O	[L]
48	LCD RS	O	LCD REGISTER SELECT	98	OPEN	O	[L]
49	LCD $\overline{\text{RESET}}$	O	LCD $\overline{\text{RESET}}$	99	BLCTL	O	BACK LIGHT ON/DIMMER/OFF
50	TUNER DATA	I/O	TUNER data in/out	100	DAVdd	-	DAVdd

■ MBV400TC70PTB03 (IC950) : 4M-bit flash memory

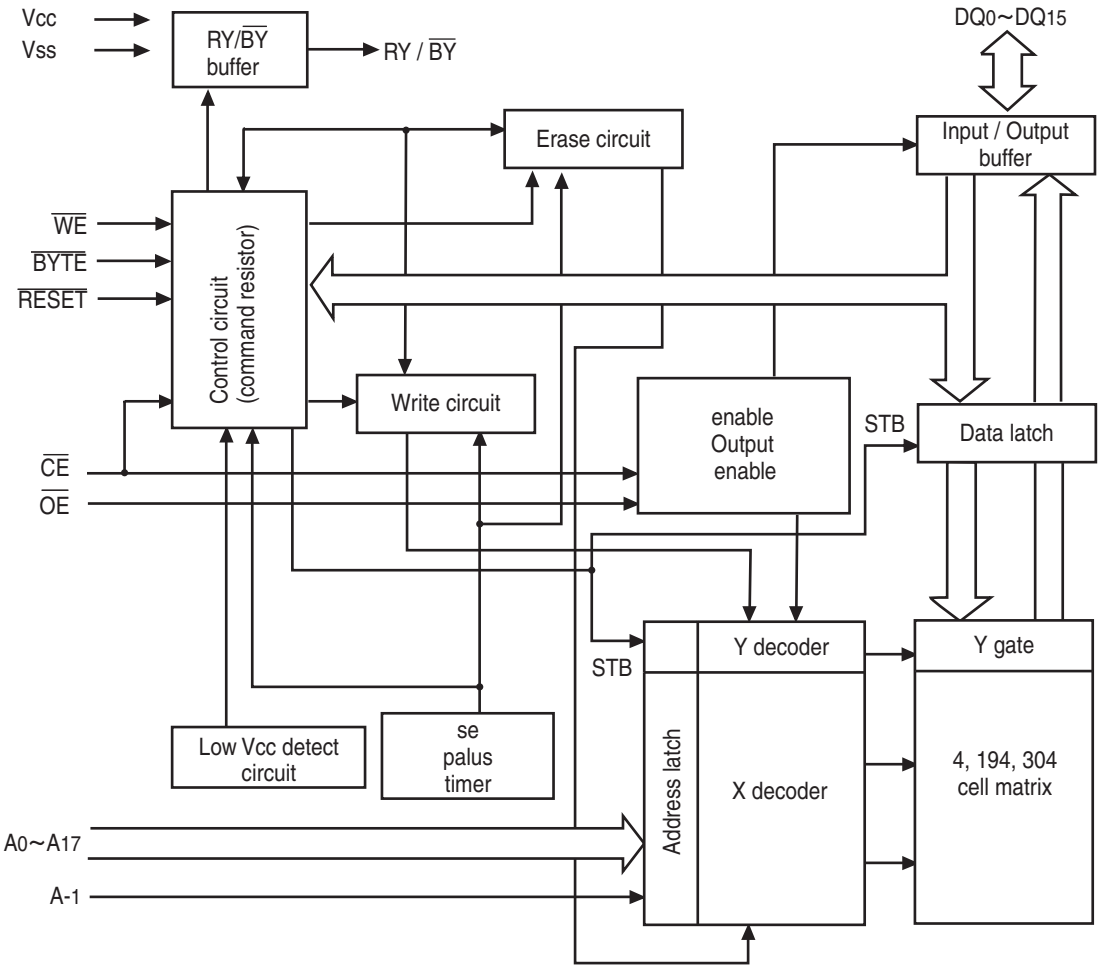
1. Pin layout



2. Pin function

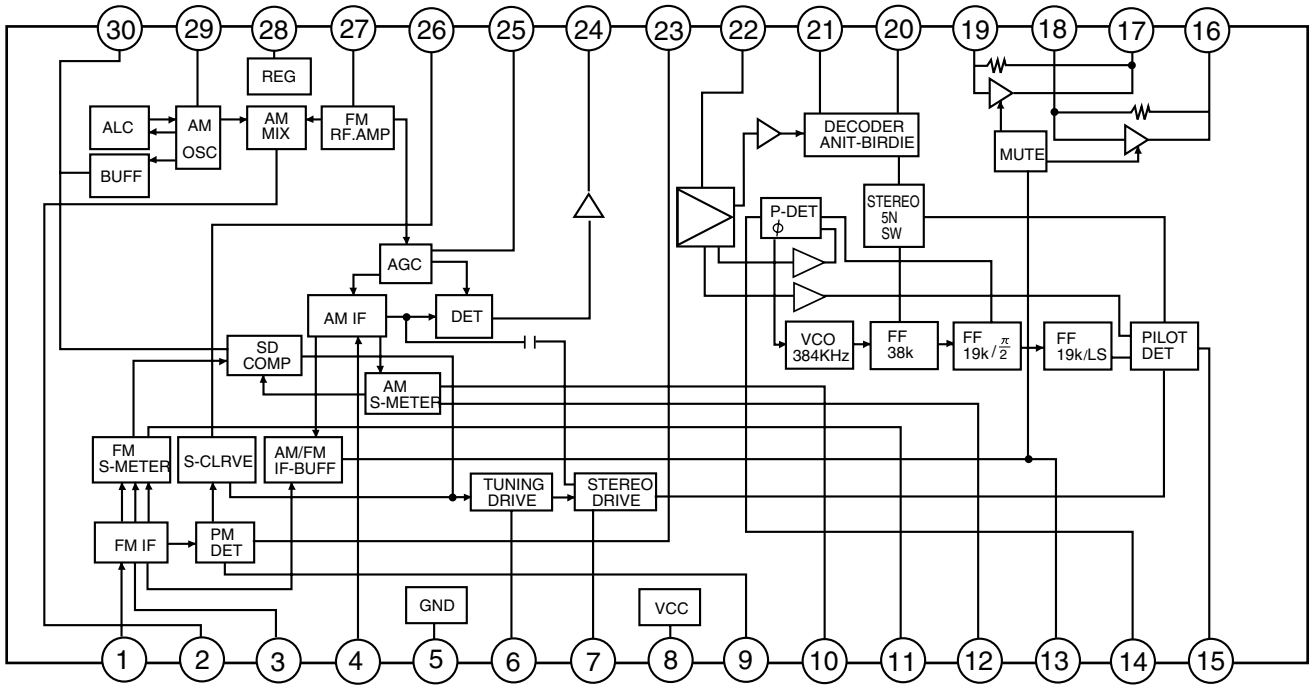
Symbol	Function	Symbol	Function
A-1, A0~A17	Address input	RY / $\overline{BY}$	Ready / Busy output
DQ0~DQ15	Data input / Output	$\overline{BYTE}$	8bit, 16bit select
$\overline{CE}$	Chip enable	Vss	GND
$\overline{OE}$	Output enable	Vcc	Power supply
$\overline{WE}$	Write enable	N.C.	Not connect
$\overline{RESET}$	Hardware reset	—	—

3. Block diagram



■ LA1838 (IC1): FM AM IF amp & detector, FM MPX decoder

1. Block Diagram

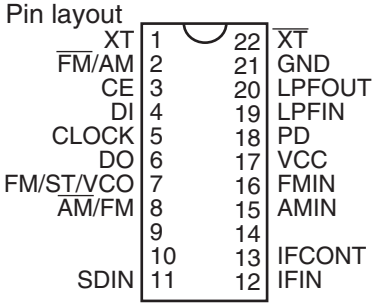


2. Pin Function

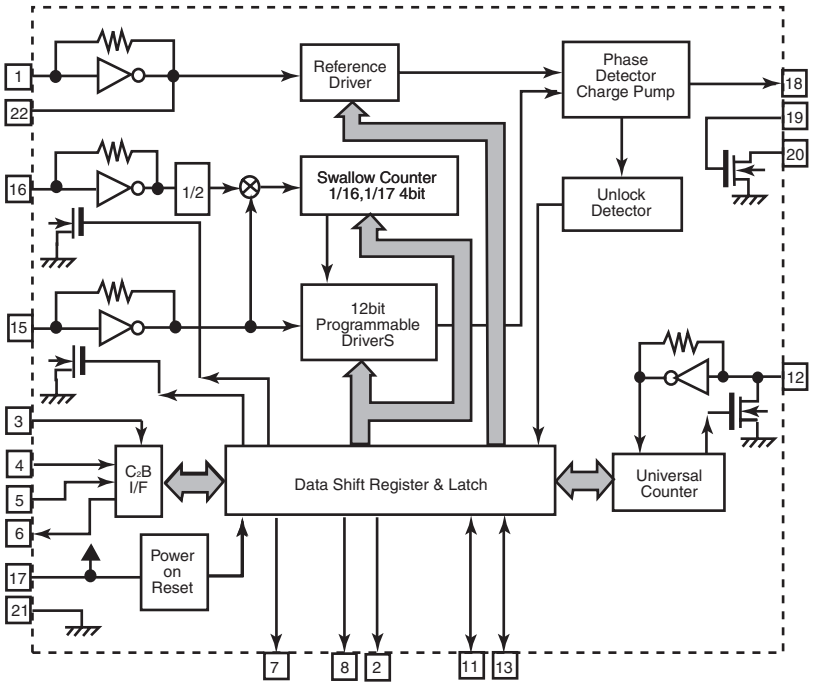
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	FM IN	I	This is an input terminal of FM IF signal.	16	L OUT	O	Left channel signal output.
2	AM MIX	O	This is an out put terminal for AM mixer.	17	R OUT	O	Right channel signal output.
3	FM IF	I	Bypass of FM IF	18	L IN	I	Input terminal of the Left channel post AMP.
4	AM IF	I	Input of AM IF Signal.	19	R IN	I	Input terminal of the Right channel post AMP.
5	GND	—	This is the device ground terminal.	20	RO	O	Mpx Right channel signal output.
6	$\overline{\text{TUNED}}$	O	When the set is tunning,this terminal becomes "L".	21	LO	O	Mpx Left channel signal output.
7	$\overline{\text{STEREO}}$	O	Stereo indicator output. Stereo "L", Mono: "H"	22	MPX IN	I	Mpx input terminal
8	VCC	—	This is the power supply terminal.	23	FM OUT	O	FM detection output.
9	FM DET	—	FM detect transformer.	24	AM DET	O	AM detection output.
10	AM SD	—	This is a terminal of AM ceramic filter.	25	AM AGC	I	This is an AGC voltage input terminal for AM
11	FM VSM	O	Adjust FM SD sensitivity.	26	AFC	—	This is an output terminal of voltage for FM-AFC.
12	AM VSM	O	Adjust AM SD sensitivity.	27	AM RF	I	AM RF signal input.
13	MUTE	I/O	When the signal of IF REQ of IC121(LC72131) appear, the signal of FM/AM IF output. //Muting control input.	28	REG	O	Register value between pin 26 and pin28 besides the frequency width of the input signal.
14	FM/$\overline{\text{AM}}$	I	Change over the FM/AM input. "H" :FM, "L" : AM	29	AM OSC	—	This is a terminal of AM Local oscillation circuit.
15	$\overline{\text{MONO}}$/ST	O	Stereo : "H", Mono: "L"	30	OSC BUFFER	O	AM Local oscillation Signal output.

■ LC72136N (IC2) : PLL frequency synthesizer

1. Pin layout



2. Block diagram

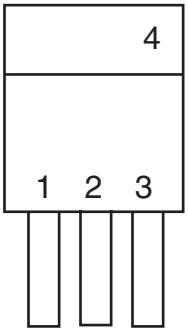


3. Pin function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	$\overline{FM}$/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	$\overline{AM}$/FM	O	Open state after the power on reset	19	LPFIN	I	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	O	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	$\overline{XT}$	I	X'tal oscillator(75KHz)

■ UPC2933AT-W (IC901) : Regulator

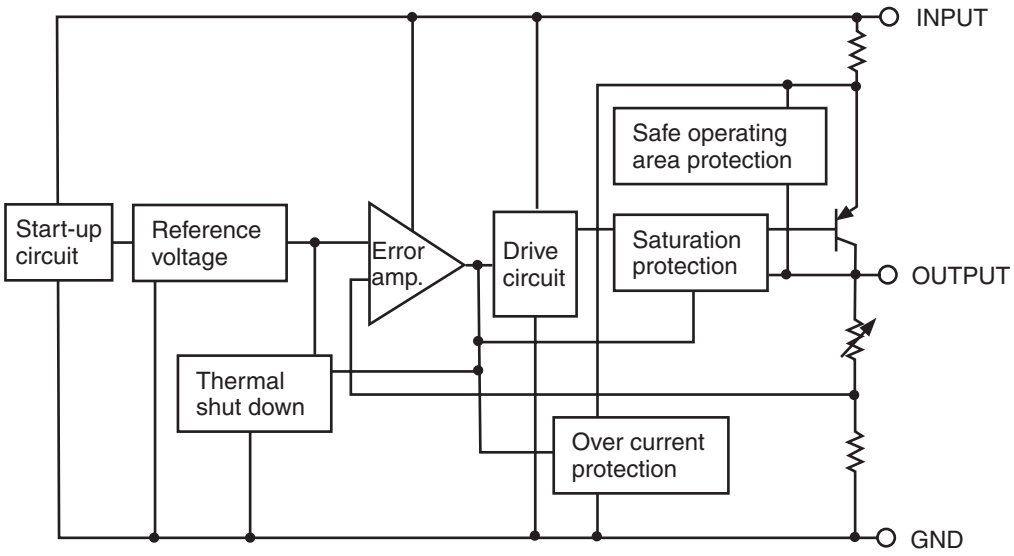
1. Pin layout



2. Pin function

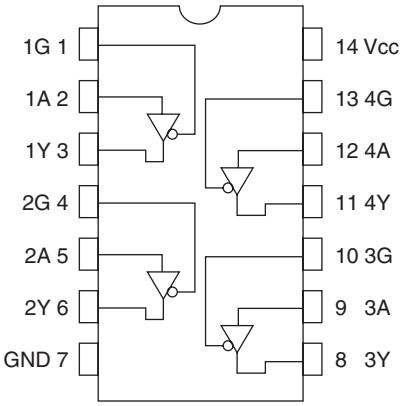
Pin No.	Function
1	Input
2	Gnd
3	Output
4	Gnd (Fin)

3. Block diagram



■ TC74VHC125FT-X (IC932) : Buffer

1. Pin layout & block diagram



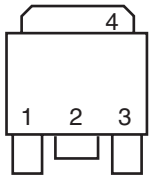
2. Truth table

INPUTS		OUTPUTS
$\overline{G}$	A	Y
H	X	Z
L	L	L
L	H	H

X: Don't care
Z:High impedance

■ UPC2925T-W (IC902) : Regulator

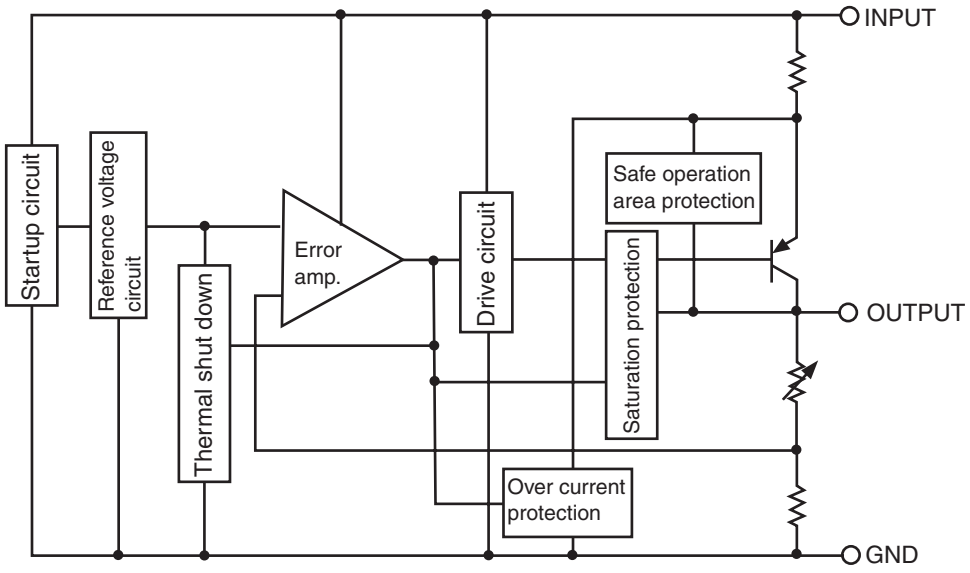
1. Pin layout



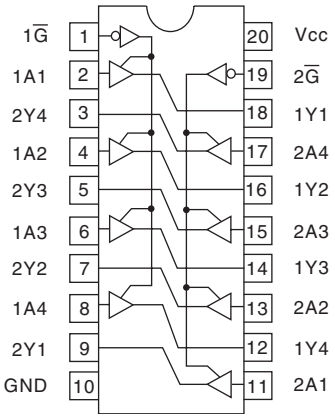
2. Pin function

Pin No.	Function
1	Input
2	Gnd
3	Output
4	Gnd (Fin)

3. Block diagram



■ TC74VHC244FT-X (IC906) : Buffer

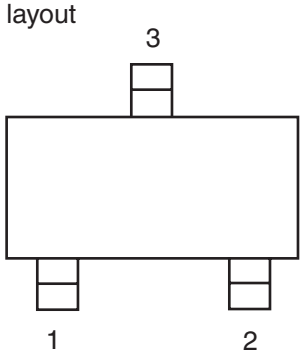


INPUTS		OUTPUTS	
$\overline{G}$	An	Yn	$\overline{Y}$n
L	L	L	H
L	H	H	L
H	X	Z	Z

X : Don't Care
Z : High Impedance
Yn : TC74VHC244
$\overline{Y}$n : TC74VHC240

■ XC61FN2712M-X (IC903) : Regulator

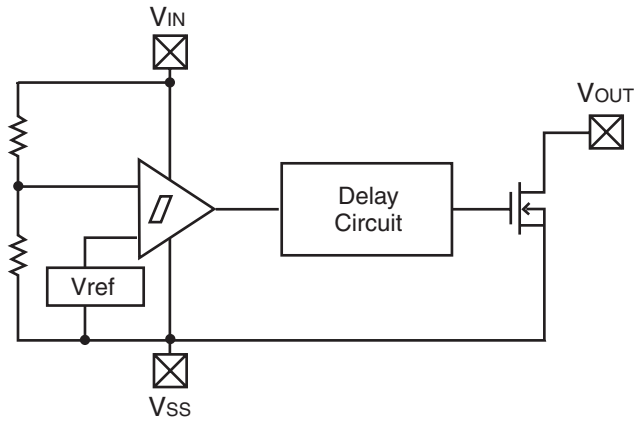
1. Pin layout



2. Pin function

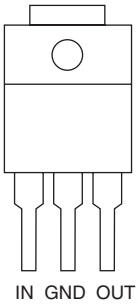
Pin No.	Symbol	Function
1	VOUT	Output
2	VSS	Ground
3	VIN	Supply voltage input

3. Block diagram

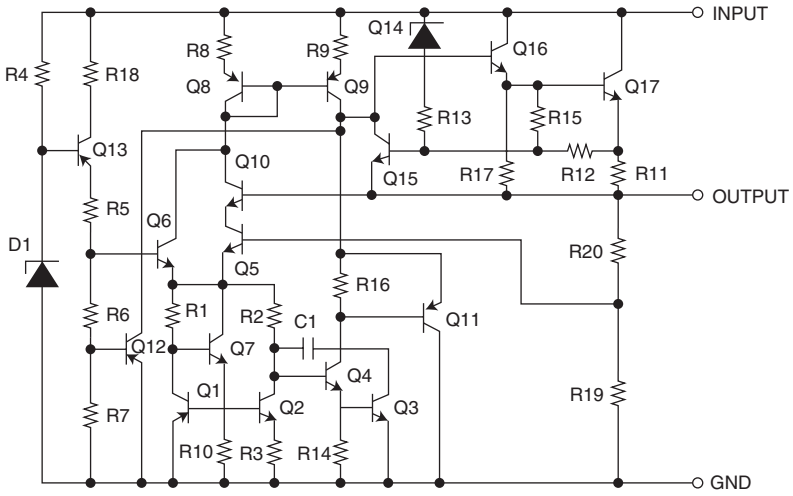


■ UPC7805AHF (IC961) : Regulator

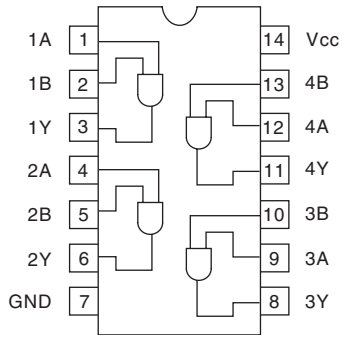
1. Pin layout



2. Block diaglam

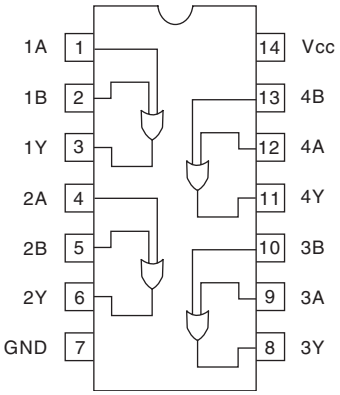


■ TC74VHCT08AFT-X (IC905) : QUAD 2-input and gate



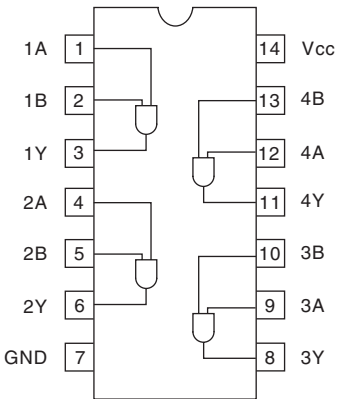
INPUTS		OUTPUTS
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

■ TC74LCX32FT-X (IC961,IC962,IC963) : QUAD 2-input or gate



INPUTS		OUTPUTS
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	H

■ TC74LCX08FT-X (IC952) : QUAD 2-input and gate



INPUTS		OUTPUTS
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO & COMUNICATION BUSINESS DIVISION
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.21155)

Printed in Japan
200209

JVC

SCHEMATIC DIAGRAMS

COMPACT COMPONENT HDD SYSTEM

NX-HD10

CD-ROM No.SML200209

Area Suffix

J ---------- U.S.A.

SP-NXHD10 CA-NXHD10 SP-NXHD10

HDD

COMPACT disc DIGITAL AUDIO

Contents

Block diagram ---------- 2-1
Standard schematic diagrams ---------- 2-2
Printed circuit boards ---------- 2-7~10

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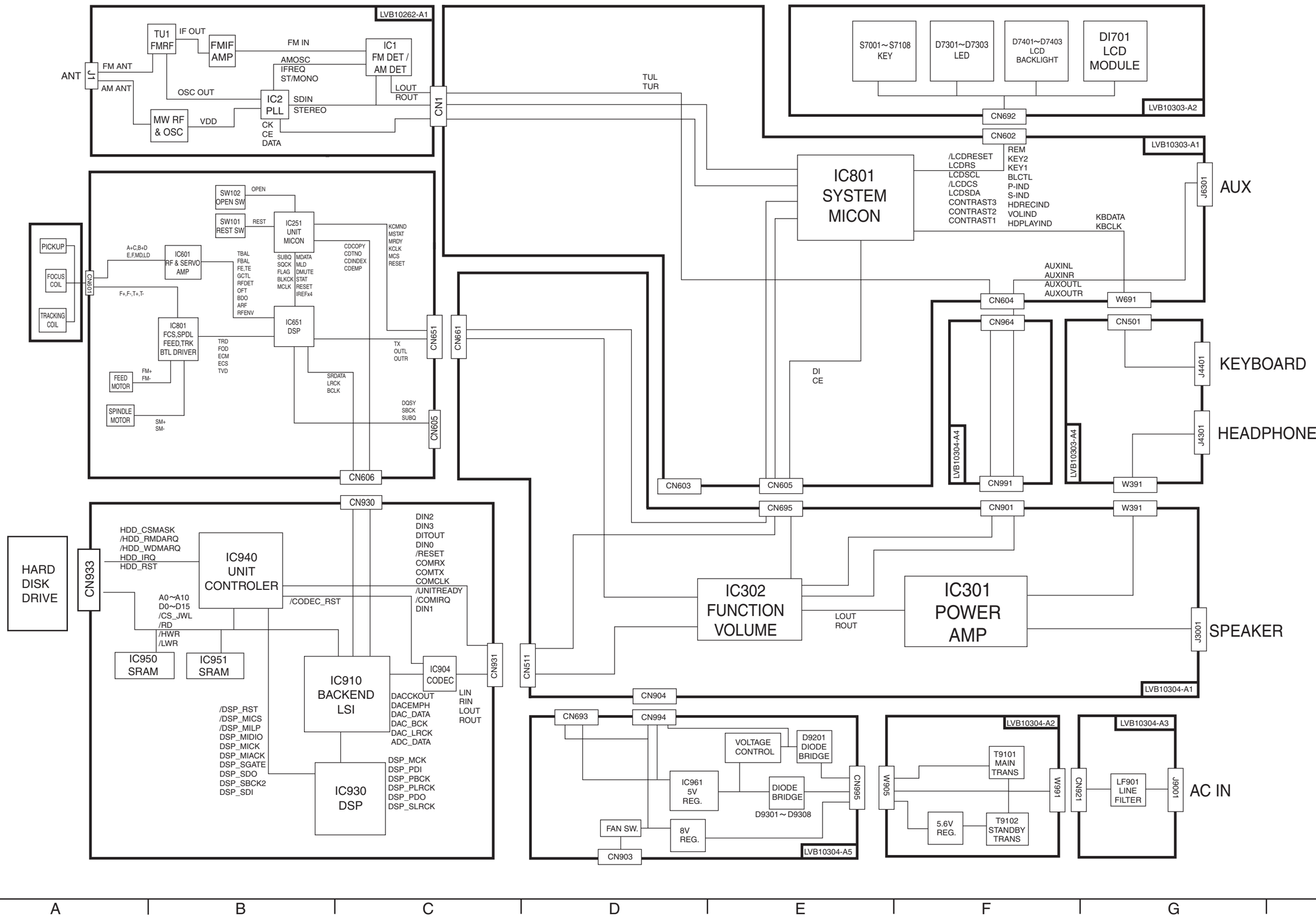
No.21155SCH
Sep. 2002

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

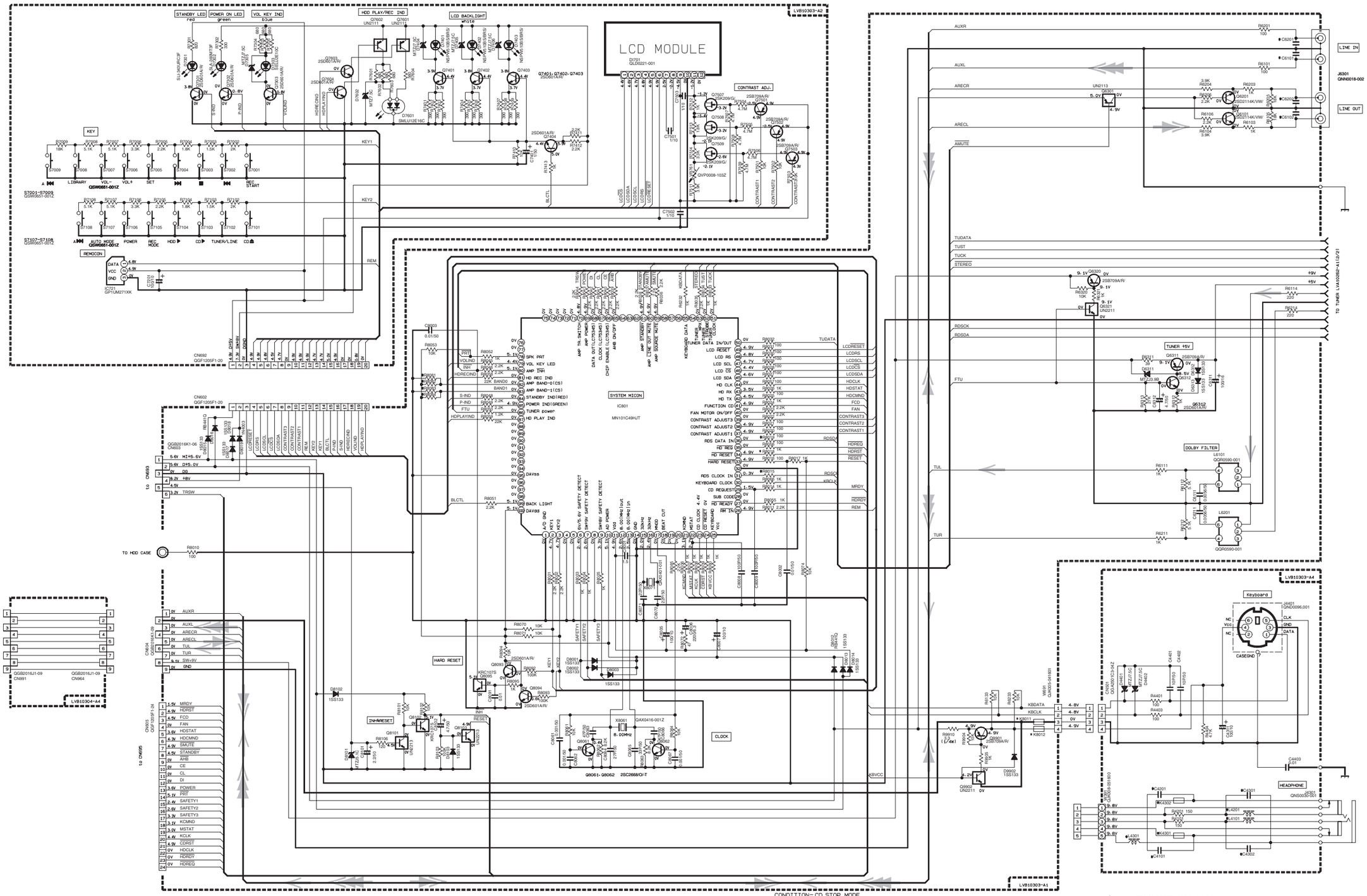
(This regulation does not correspond to J and C version.)

Block diagram



Standard schematic diagrams

■ LCD & Key control section



# MARKS	REF NO:	R8081	R8082	R8083	R8084	R8015 R8016	Q6101 Q6201	Q6102 Q6202	L4101 L4201	C4101 C4201	C4301 C4302	K4301 K4302	L4301
VERSION													
B/E/EN		10K	NONE	NONE	2.2K	1K	150P	150P	47	330P	470P	QGR0621-001Z	47
J		10K	NONE	10K	NONE	NONE	NONE	NONE	SHORT	NONE	NONE	SHORT	SHORT

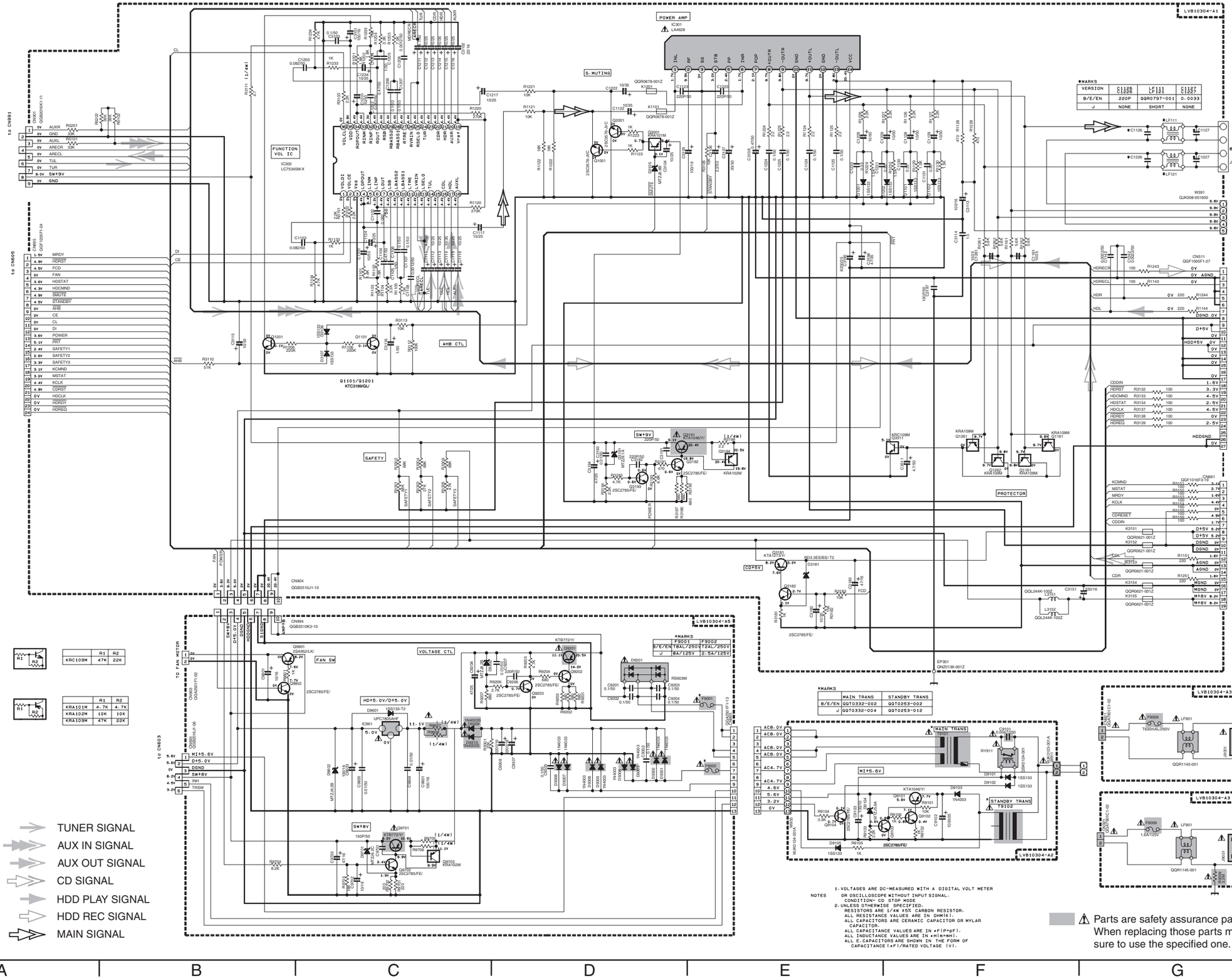
	R1	R2
UN2211-X	10K	10K
KRC1075-X	10K	47K
UN2213-X	47K	47K

	R1	R2
UN2111-X	10K	10K
UN2113-X	47K	47K

CONDITION- CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED.
RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
ALL RESISTANCE VALUES ARE IN Ω OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM RESET OF INH CAPACITANCE (μF)/RATED VOLTAGE(V).

■ Power amplifier / Power supply section



	R1	R2
KRC109M	47K	22K

	R1	R2
KRA101M	4.7K	4.7K
KRA102M	10K	10K
KRA109M	47K	22K

MARKS		
VERSION	C1125 C1126 C1226	LF111 LF121 LF1227
B/E/EN	220P	QQR0797-001 0.0033
J	NONE	SHORT NONE

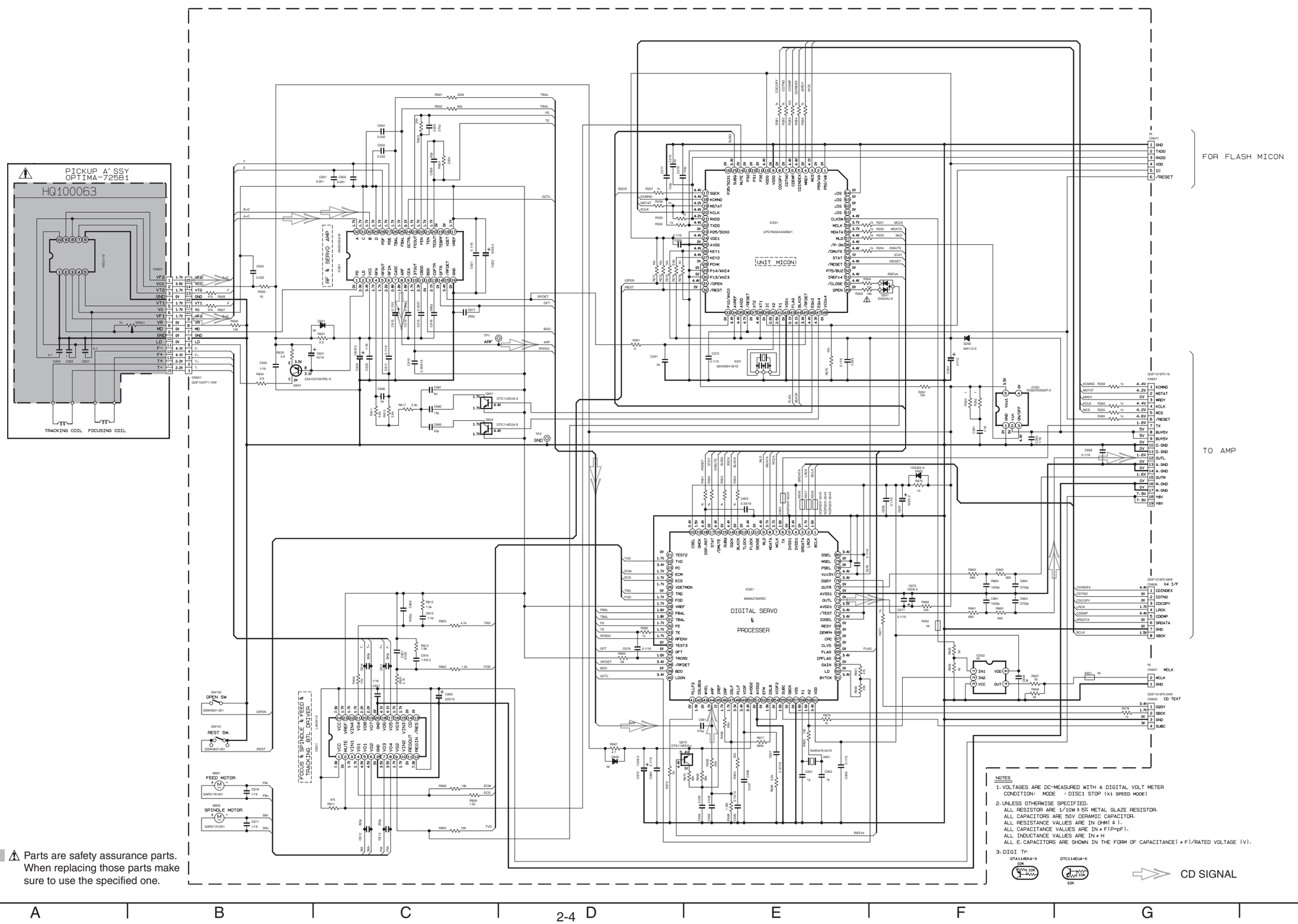
MARKS		
	F5001	F5002
B/E/EN	T8AL/250V	T2AL/250V
J	6A/125V	2.5A/125V

MARKS		
	MAIN TRANS	STANDBY TRANS
B/E/EN	QQT0332-002	QQT0253-002
J	QQT0332-004	QQT0253-012

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION- CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED. RESISTORS ARE 1/4W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF(P=pF). ALL INDUCTANCE VALUES ARE IN μH(m=mH). ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

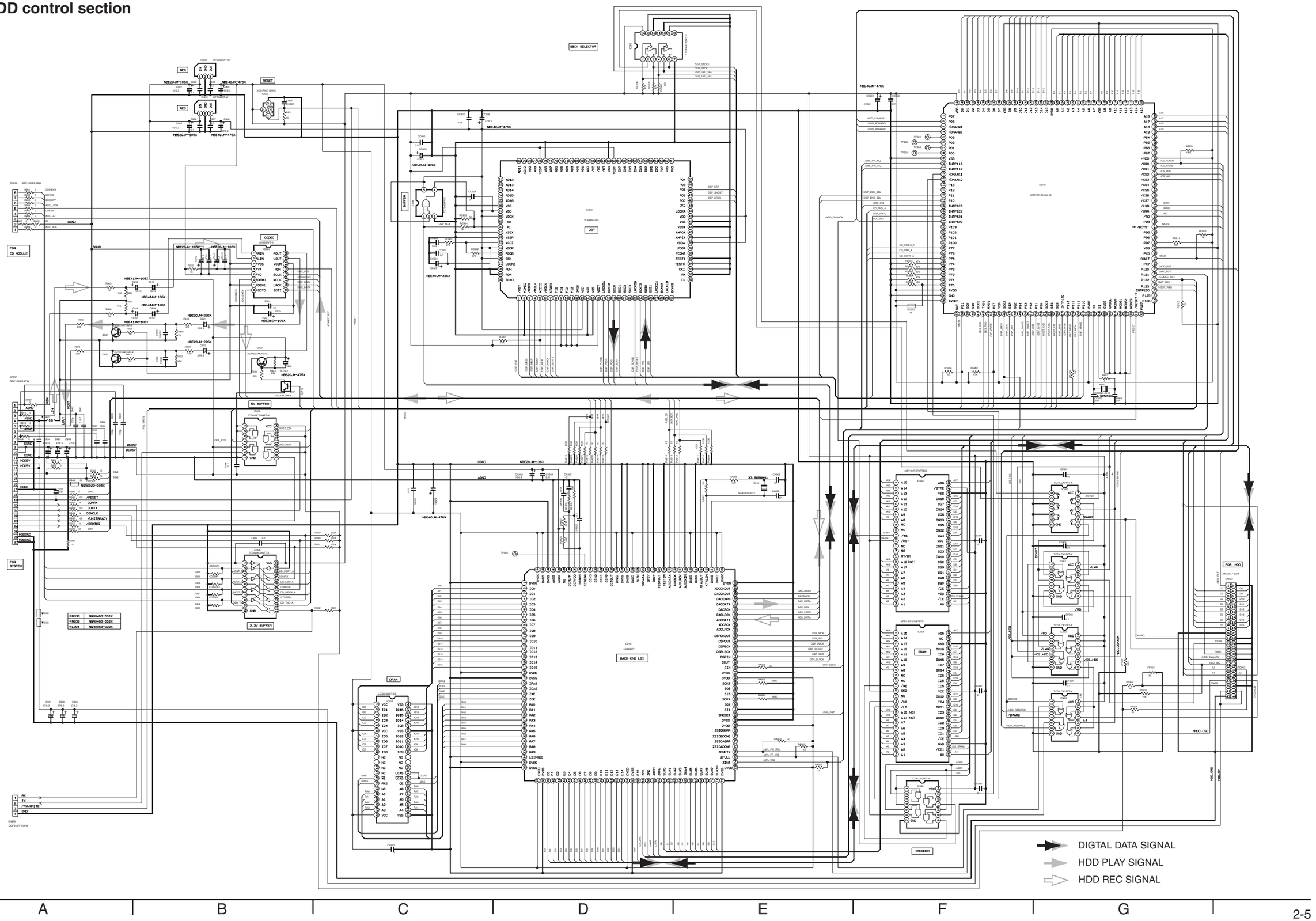
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■CD servo control section



⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■HDD control section

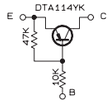


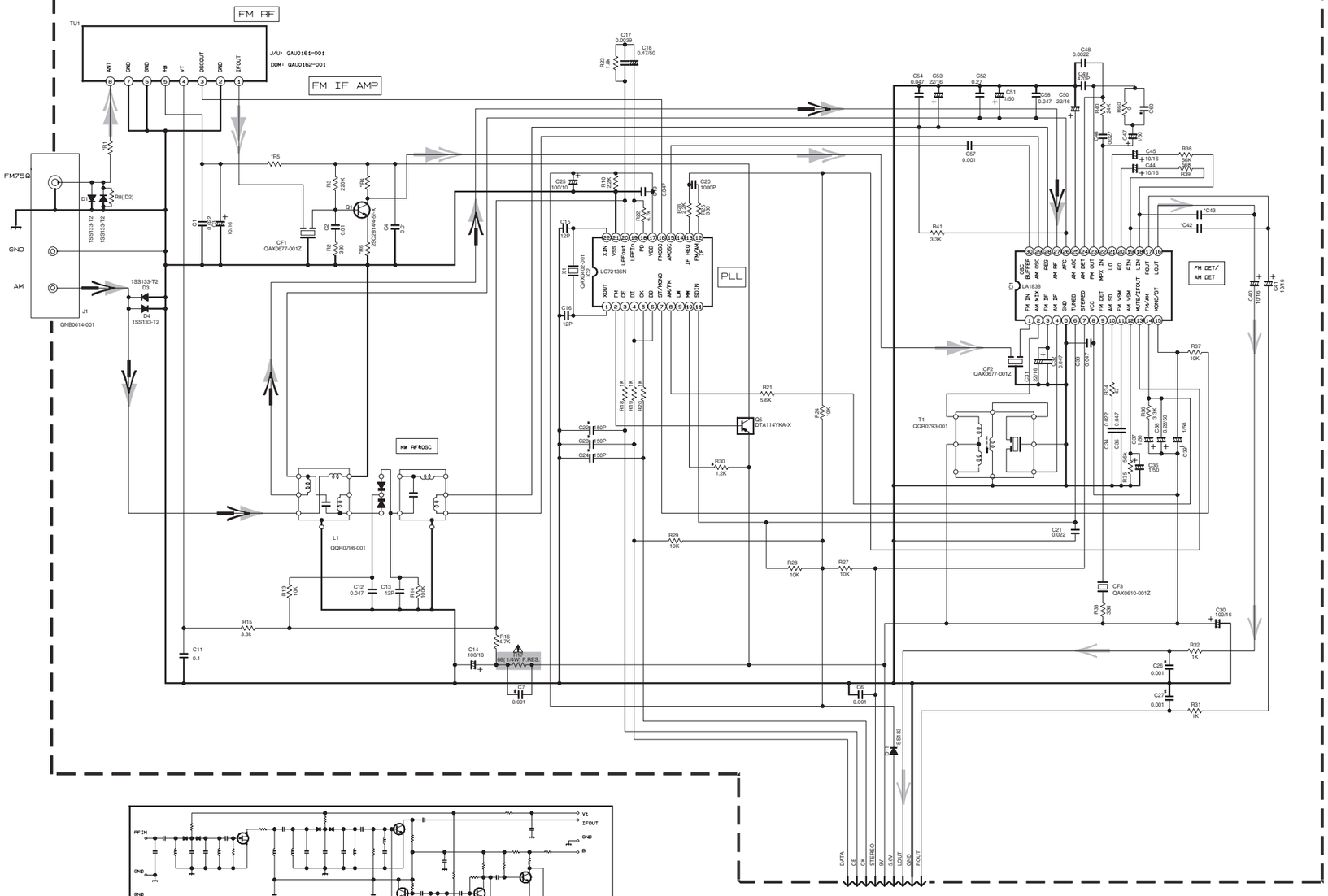
* R938	NQR0463-001X
* R939	NQR0463-002X
* L901	NQM0353-002X

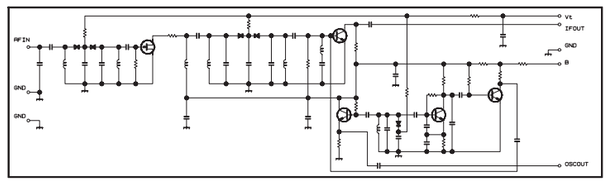
■Tuner section

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN ≠F(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (≠F)/RATED VOLTAGE (V).
6. SI DIODES (▶|) ARE ALL 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
   Q1 2SC2814/4-5/-X Q2.Q3 2SC2412K/R/-X
   Q4.Q5 DTA114YKA-X
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.







	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.5	3.5	3.6	3.6	2.7
	FM 60dB STEREO	3.6	8.9	3.6	3.6	0	0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.6	3.6	3.6	3.6	2.7
	AM NO SIGNAL	3.5	9.0	3.5	3.5	0	5.0	5.1	9.0	2.6	1.3	0	0	0.9	4.7	5.5	4.3	4.3	4.3	4.3	3.3	3.2	2.8	ust	0.7	0.7	3.6	3.6	3.6	3.6	2.1
IC2	FM NO SIGNAL	2.5	0	0	5.0	4.9	5.0	7.9	7.8	3.6	6.1	5.1	0	0	0	0	2.5	5.1	0.9	0.9	3.8	0	2.3								

	VERSION		
	J/C	Usaries	DOM UX MODEL ONLY
C42	0.0022	0.0015	0.0018
C43	0.0022	0.0015	0.0018
R1	560	560	270
R4	331	331	221
R5	560	560	270
R6	240	240	180
R8	D2	D2	101

FM SIGNAL
AM SIGNAL
TUNER SIGNAL

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Tr NO.	Q1			Q5					
PIN NO.	E	C	B	E	C	B			
FM 87.5MHz NO SIGNAL	0	7.1	0.85	8.9	8.8	0			
AM 522KHz NO SIGNAL	0	0	0	9.0	0	8.9			
Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	0	0	0.7	0	0	0.7	0	3.6	0.7
AM 144KHz NO SIGNAL	0	0	0.3	0	0.3	0.3	3.6	3.6	3.6

Printed circuit boards

■ Micon board

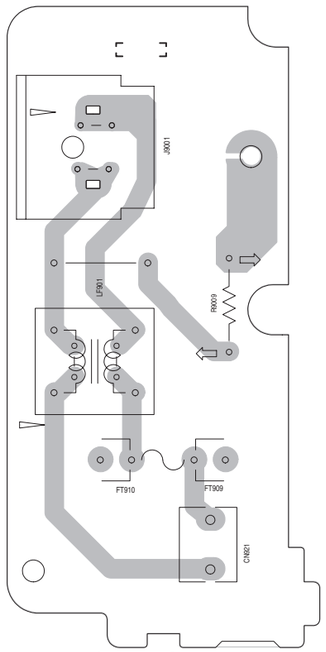
System control board

Front board

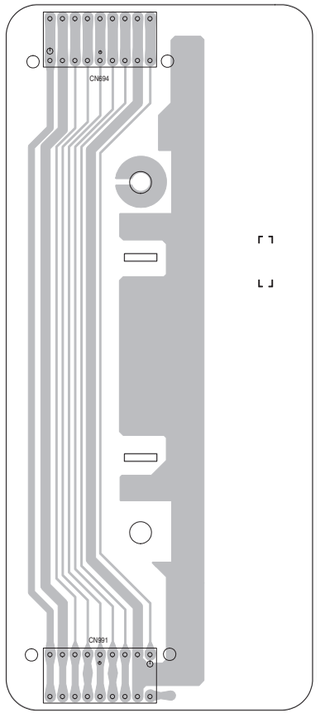
Headphone board

■ Main board

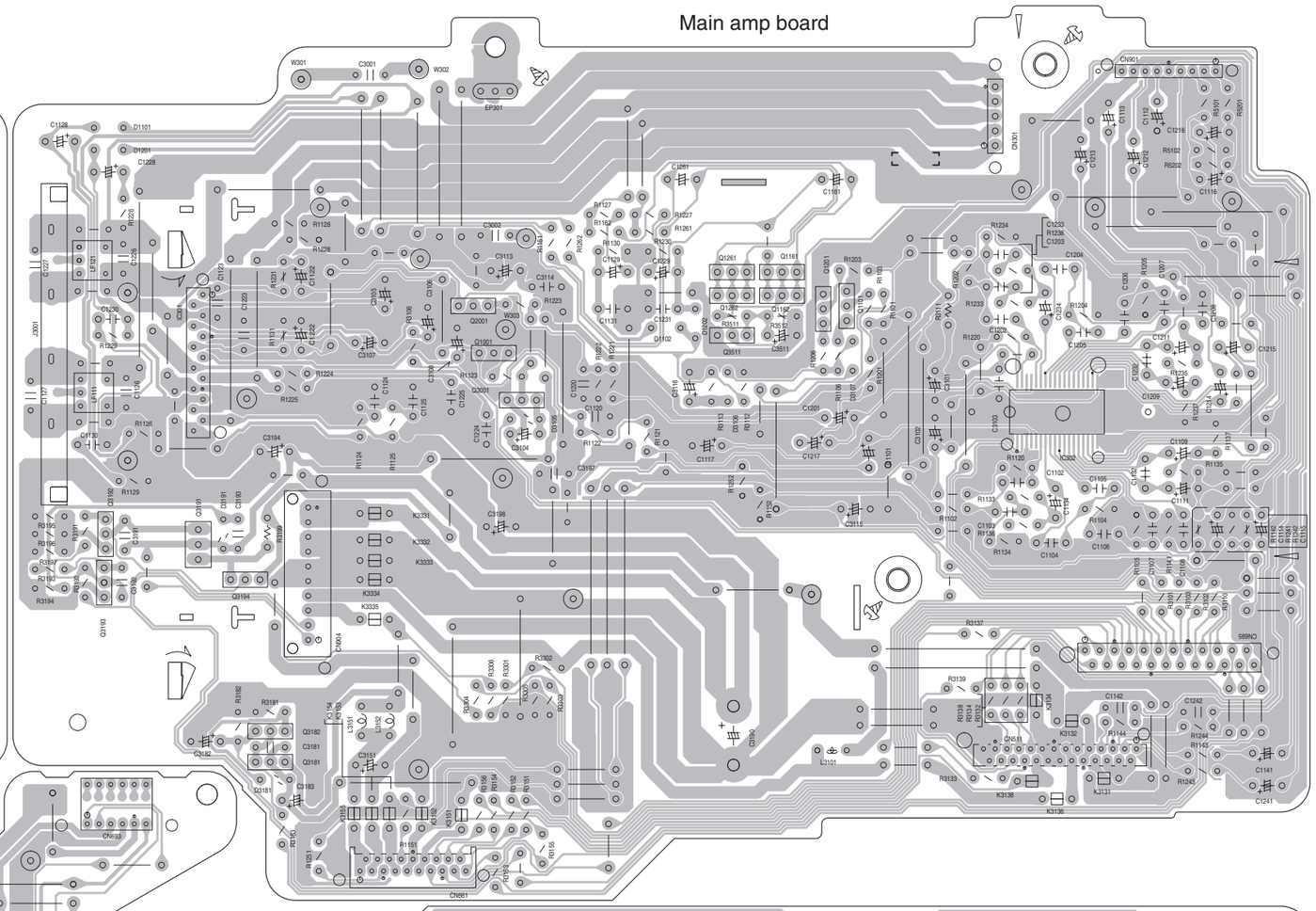
AC jack board



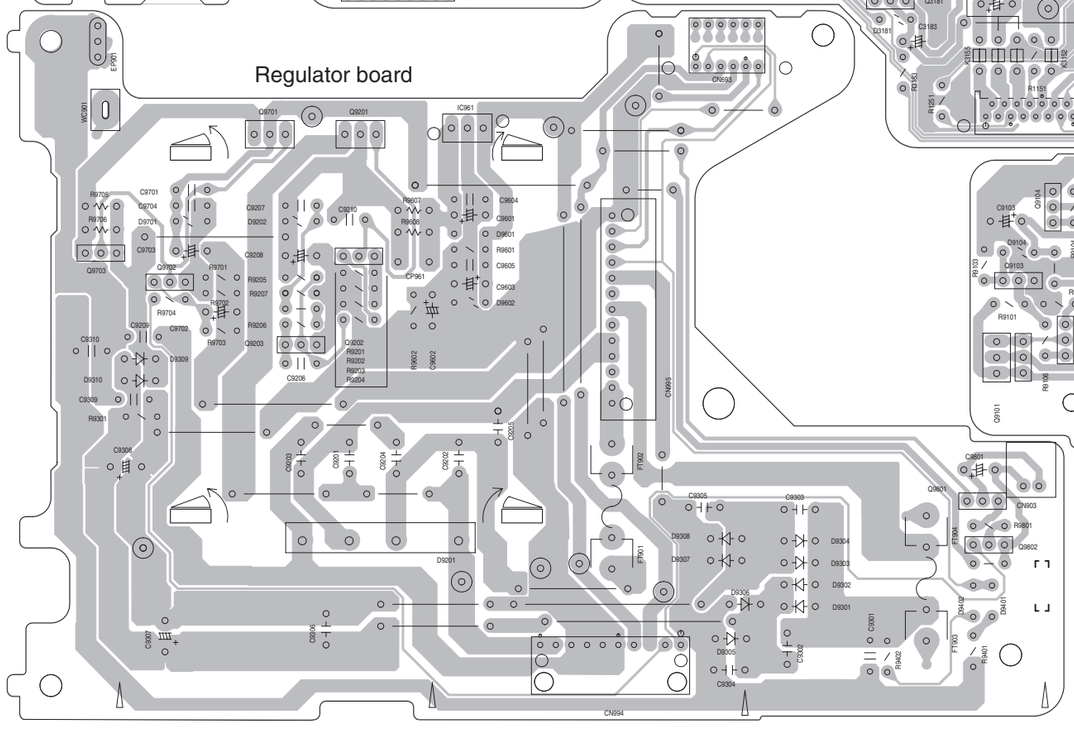
Connection board



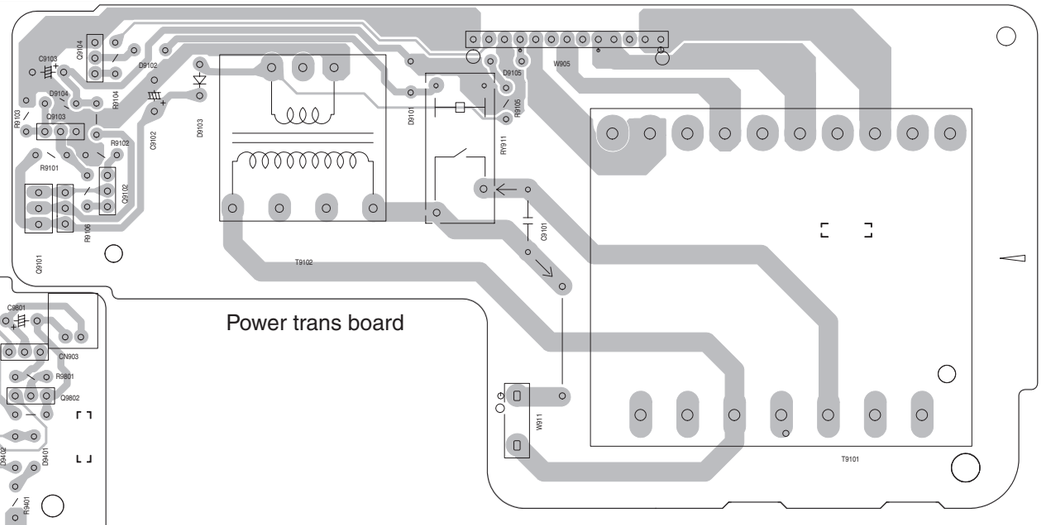
Main amp board



Regulator board

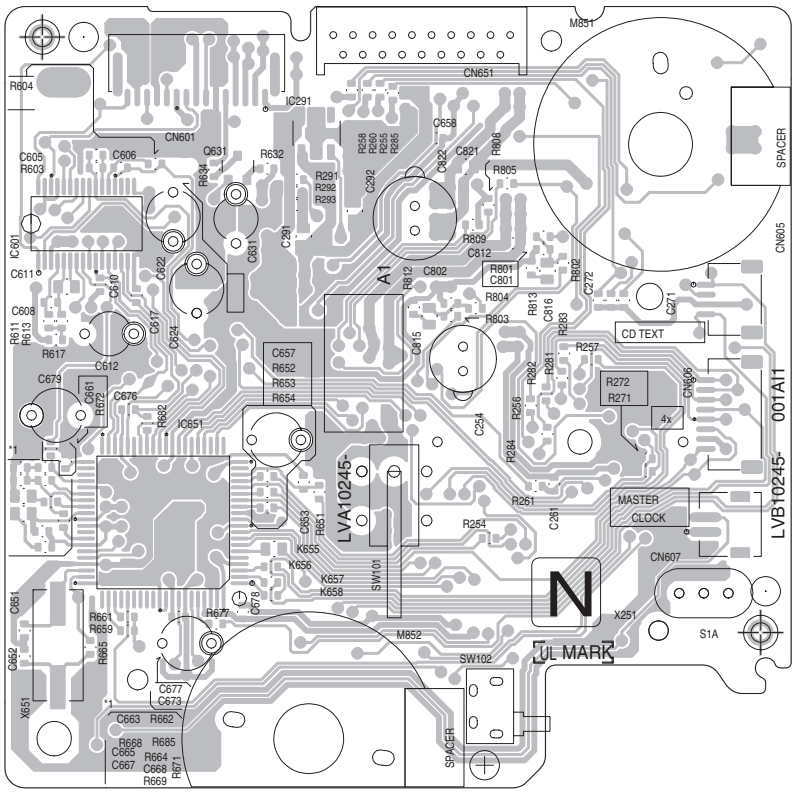


Power trans board

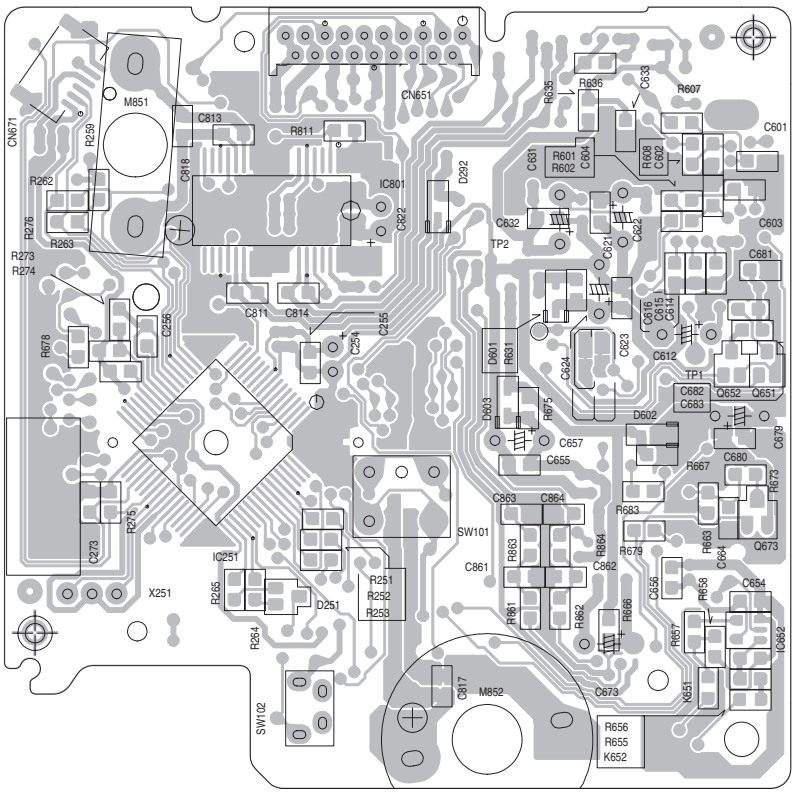


■CD servo control board

(Forward side)

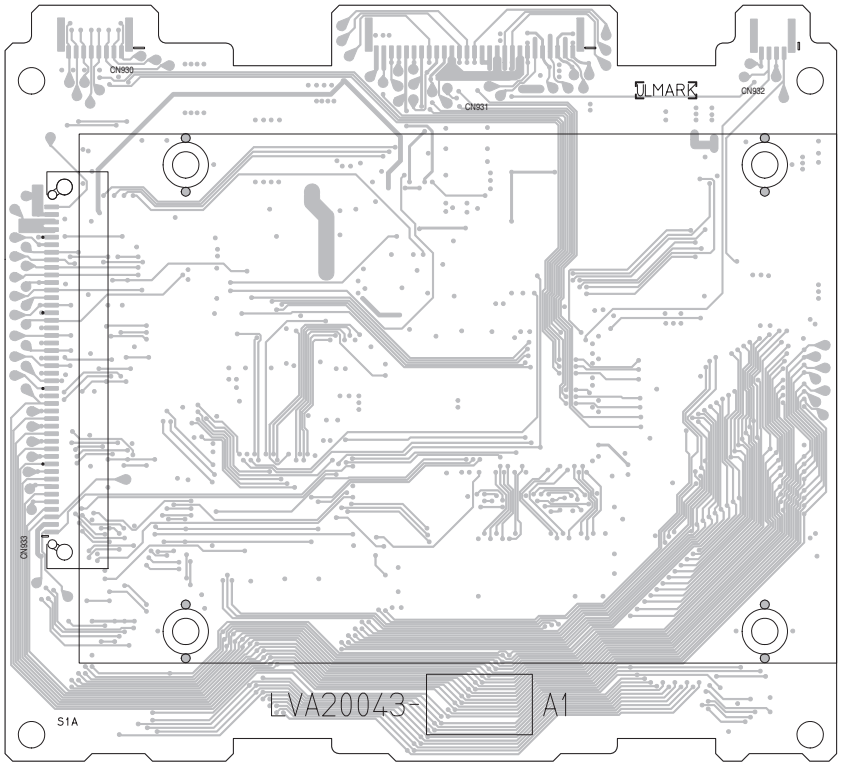


(Reverse side)

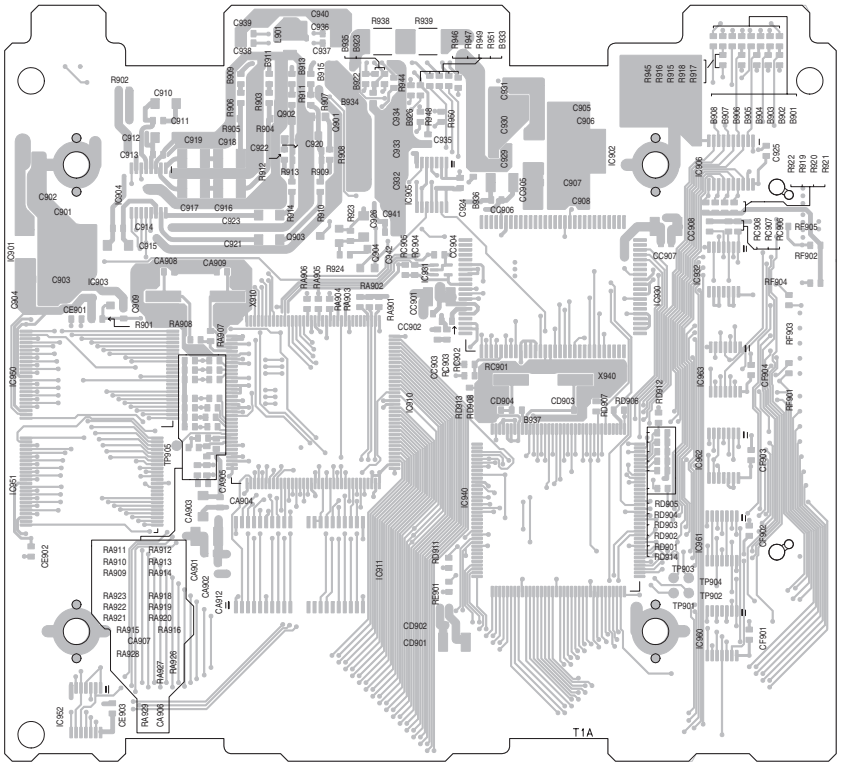


■ HDD control board

(Forward side)



(Reverse side)



< MEMO >

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO & COMUNICATION BISINESS DIVISION
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1Chome,Ohwatari-machi,maebashi-city,371-8543,Japan

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Printed in Japan
200209

PARTS LIST

[NX-HD10]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

J ---------- U.S.A.

- Contents -

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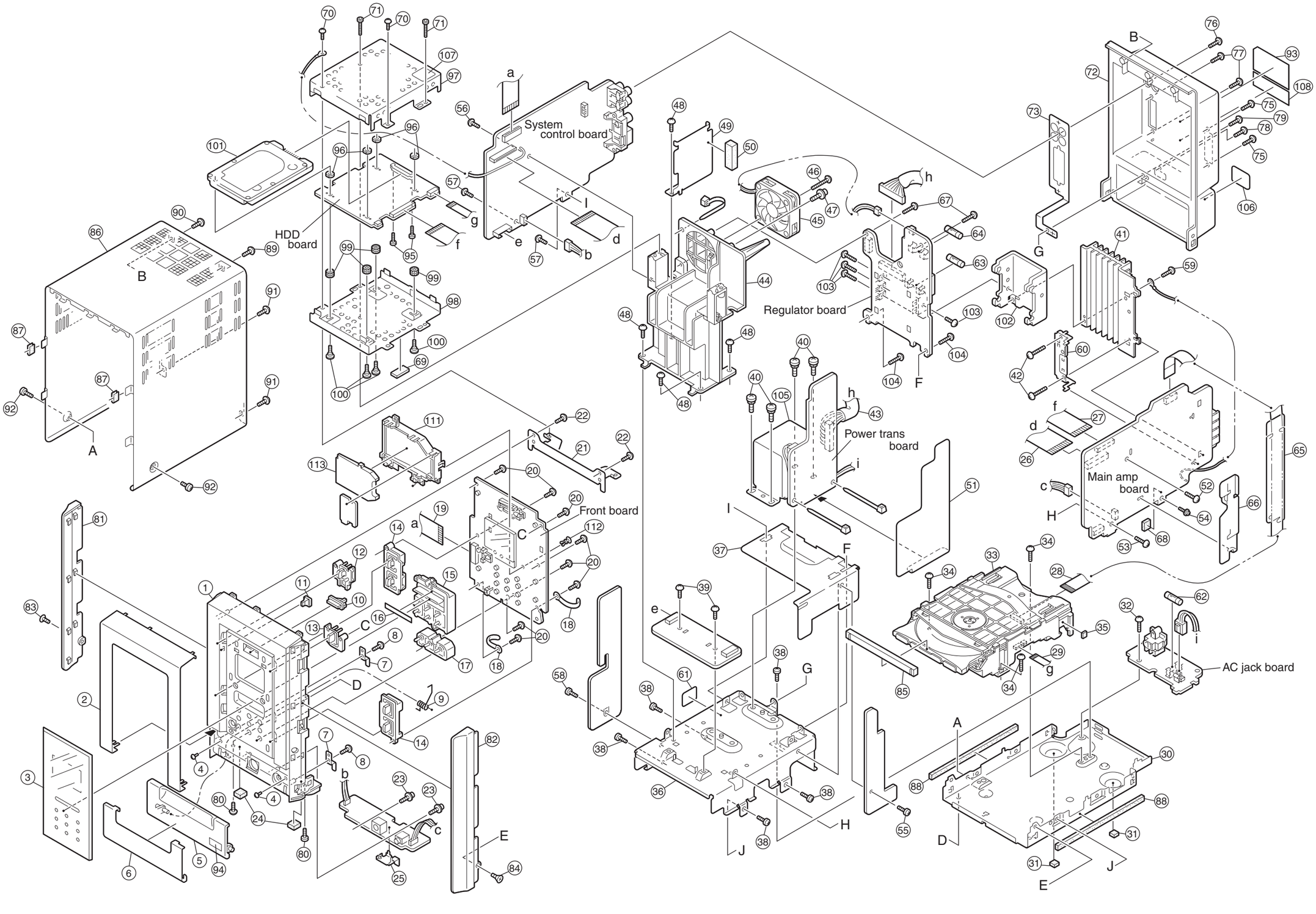
CD mechanism assembly and parts list (Block No.MB) ---------- 3- 6
Electrical parts list (Block No.01~04) ---------- 3- 8
Packing materials and accessories parts list (Block No.M3,M5) ---------- 3-18

< MEMO >

Exploded view of general assembly and parts list

Block No. M 1 M M



NX-HD10

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10625-001A	FRONT BASE	1	PS V-2 SPRAY	
	2	LV21016-006A	FRONT PLATE	1	AL T0.5	
	3	LV33258-001A	WINDOW SCREEN	1	MAKER CHIYODA I	
	4	E69897-002	CUSHION	2	FOR F.PANEL	
	5	LV32688-003A	CD DOOR	1	BLACK SPRAY	
	6	LV32695-003A	CD DOOR PLATE	1		
	7	LV42339-001A	DOOR BKT	2	FOR CD DOOR	
	8	QYSBSF2608Z	T.SCREW	2	DOOR BKT+F.PANEL	
	9	LV42285-003A	DOOR SPRING	1	FOR CD DOOR	
	10	LV42748-001A	INDICATOR	1	FOR 2 COLOR LED	
	11	LV42283-001A	INDICATOR(POWER)	1		
	12	LV32689-002A	BUTTON(POWER)	1		
	13	LV32690-002A	BUTTON	1		
	14	LV32687-002A	BUTTON	2		
	15	LV21015-001A	MAIN BUTTON	1		
	16	LV42417-001A	BUTTON SHEET	1		
	17	LV33260-001A	BUTTON(ENTER)	1		
	18	VKZ4001-110S	WIRE HOLDER	2	FOR H.P/USB WIRE	
	19	QUQ412-2022DJ	FFC WIRE	1	FFC 1	
	20	QYSBSF2608Z	T.SCREW	8	FOR F.PWB,BTN	
	21	LV33259-001A	STAY BKT	1		
	22	QYSBSF2608Z	T.SCREW	2	FOR STAY BKT	
	23	E65923-003	TAPPING SCREW	2	FOR H.PHON,KEYB	
	24	LV40301-001A	FELT SPACER	2	FOOT	
	25	LV43085-001A	EARTH BRACKET	1	KEYBOARD JACK P	
	26	QUQ412-2414CJ	FFC WIRE	1	FFC 2	
	27	QUQ110-2707AJ	FFC WIRE	1	FFC 4	
	28	QUQ110-1936AJ	FFC WIRE	1	FFC 3	
	29	QUQ110-0826BJ	FFC WIRE	1	FFC 5	
	30	LV10521-001A	BOTTOM CHASSIS	1		
	31	LV40301-002A	FELT SPACER	2	FOR BOTTOM	
	32	QYSBST3006Z	T.SCREW	1	AC PWB+BOTTOM C	
	33	----------	CD MECHANISM	1		
	34	QYSBST3008Z	T.SCREW	3	N1 + BOTTOM	
	35	VYSH101-009	SPACER	1	CD MECHA FFC 1	
	36	LV10522-001A	SUB CHASSIS	1		
	37	LV33115-003A	DUST COVER	1		
	38	QYSDSG3006E	T.SCREW	5	SUB+B.C(SIDE/RE	
	39	QYSBST3006Z	T.SCREW	2	FOR CYUUKEI PWB	
	40	QYSDSTL4008Z	SPECIAL SCREW	4	TRANS+SUB.C	
	41	LV32697-001A	HEAT SINK	1	MAIN HEAT SINK	
	42	QYSBSG3014E	T.SCREW	2	FOR IC HOLDER+H.SINK	
	43	QWTBK00-050	TUBE	1	FOR W905	
	44	LV10626-001A	CENTOR SUPPORT	1		
	45	QAR0190-001	FAN MOTOR	1		
	46	QYSBSF3025Z	SCREW	1	C.SUPPORT+FAN.MOTOR	
	47	E65923-003	TAPPING SCREW	1	C.SUPPORT+FAN.MOTOR	
	48	QYSBSG3008Z	T.SCREW	4	SUB.C+C.SUPPORT	

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	49	LV42632-001A	SHIELD	1	FOR TRANS	
	50	LV30225-0C2A	SPACER	1	FOR SHIELD	
	51	LV42615-002A	PWB COVER	1		
	52	QYSBSG3008Z	T.SCREW	1	C.SUPPORT+AMP.PWB	
	53	QYSBSG3008Z	T.SCREW	1	SUB+SP.PWB(FRONT	
	54	QYSBSGG3008E	T.SCREW	1	SUB+SP.PWB(REAR	
	55	QYSDSG3006E	T.SCREW	1	FOR FFC STPPER	
	56	QYSBSG3008Z	T.SCREW	1	C.SUPPORT+MICON PWB	
	57	QYSBSG3008Z	T.SCREW	2	SUB+MICON PWB	
	58	QYSDSG3006E	T.SCREW	1	SHIELD CB FIX	
	59	QYSBSG3010E	T.SCREW	1	FOR H.SINK+H.SINK2	
	60	LV32698-001A	IC HOLDER	1	FOR IC	
	61	VYSH101-009	SPACER	1	SUB CHASSIS FFC	
⚠	62	QMF51U1-1R6-J8	FUSE	1	F9009	
⚠	63	QMF51U1-8R0-J8	FUSE	1	F9001	
⚠	64	QMF51U1-2R5-J8	FUSE	1	F9002	
	65	LV42539-001A	BARRIER	1	BACK SIDE FFC	
	66	LV42868-001A	FFC BARRIER	1	FRONT SIDE FFC	
	67	QYSBSG3008Z	T.SCREW	2	FOR REG PWB+C.SUPPORT	
	68	VYSH101-009	SPACER	1	FIX WIRE	
	69	LV30225-0G2A	SPACER	1	HDD CASE BOTTOM	
	70	QYSBST3006Z	T.SCREW	2	STAY BKT+HDD CASE	
	71	LV40246-001A	SPECIAL SCREW	2	HDD CASE+C.SUPPORT	
	72	LV10627-001A	REAR COVER	1	PS 94V-2	
	73	LV32715-001A	EARTH PLATE	1	FOR TUNER	
	75	QYSBSG3008M	T.SCREW	2	FOR SP JACK	
	76	QYSBSG3008M	T.SCREW	1	FOR LINE 1 JACK	
	77	QYSBSG3008M	T.SCREW	2	FOR TU JACK	
	78	QYSBSG3008M	T.SCREW	1	FOR AC	
	79	QYSBSG3008M	T.SCREW	1	FOR R.COVER+SUB	
	80	QYSBST3008Z	T.SCREW	2	F.PANEL+BOTTOM C.	
	81	LV21023-002A	SIDE FITTING(L)	1	SPRAY	
	82	LV21024-002A	SIDE FITTING(R)	1	SPRAY	
	83	QYSSST3006Z	SCREW	1	FOR FITTING(L)	
	84	QYSSST3006Z	SCREW	1	FOR FITTING(R)	
	85	LV32693-002A	TRAY FITTING	1	FOR CD TRAY	
	86	LV21017-006A/S/	METAL COVER	1		
	87	LV30064-082A	SPACER	2	FOR METAL COVER	
	88	LV30225-0C3A	SPACER	2	FOR METAL COVER	
	89	QYSBSG3008E	T.SCREW	1	REAR UPPER RIGHT	
	90	QYSBSG3008E	T.SCREW	1	REAR UPPER LEFT	
	91	QYSBSG3008E	T.SCREW	2	REAR L/R LOWER	
	92	QYSDSG3006N	T.SCREW	2	L/R SIDE	
	93	LV33264-001A	NAME PLATE	1	TO REAR COVER	
	94	LV42594-003A	CAUTION LABEL	1	FOR CD DOOR	
	95	QYSPSP2005Z	SCREW	2	FOR CN933	
	96	LV43077-001A	HDD SPACER	4	HDD TO BOARD	
	97	LV33329-001A	HDD CASE(U)	1		

■ Parts list (General assembly)

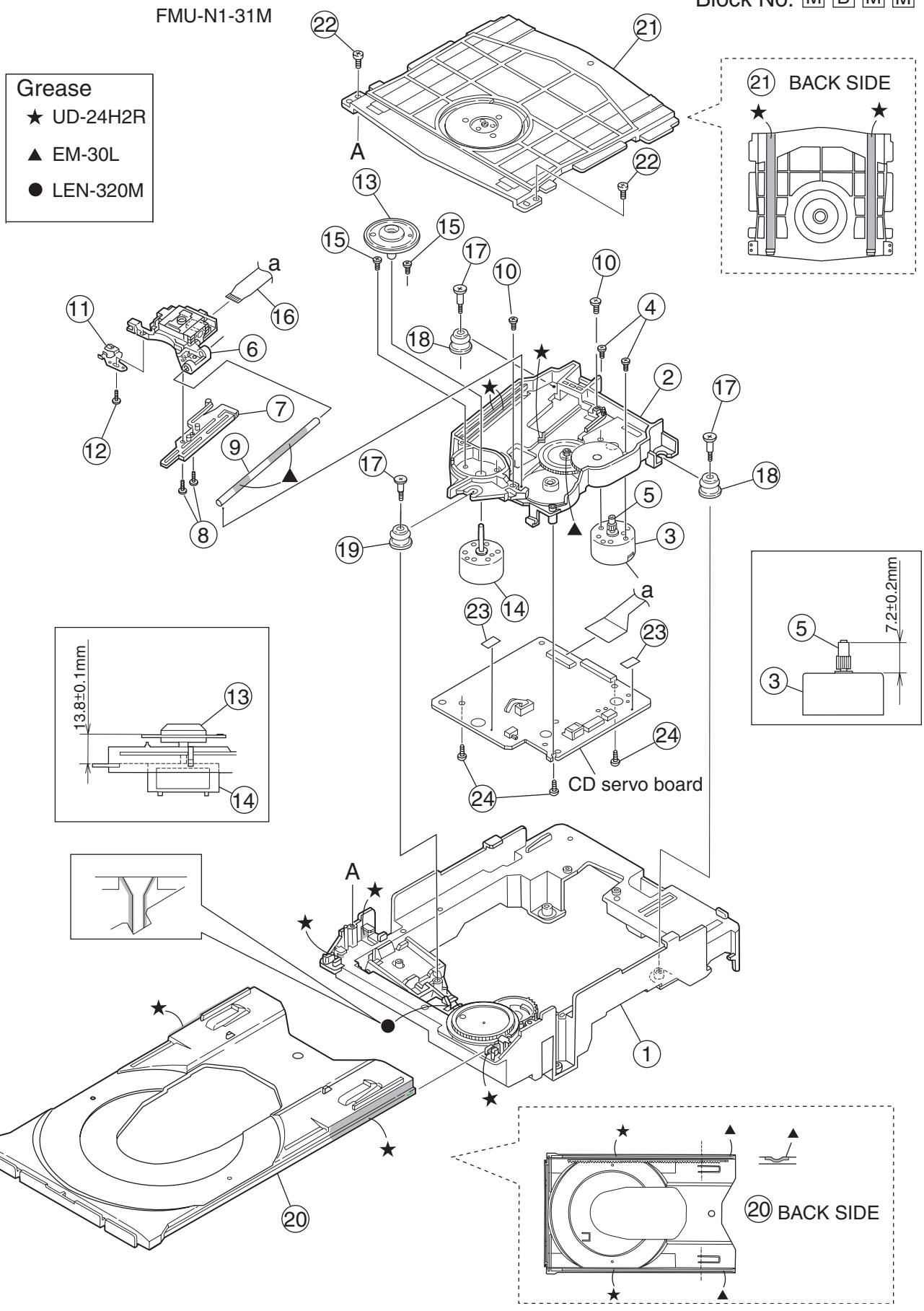
Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	98	LV33330-001A	HDD CASE(L)	1		
	99	LV42920-001A	BUSHING	4		
	100	LV42919-001A	SPECIAL SCREW	4		
	101	QAL0413-001	HDD	1		
	102	LV30866-202A	HEAT SINK 2	1	MAKER MALAYSIA	
	103	QYSBSG3010Z	T.SCREW	4	FOR REG/AMP+H.SINK 2	
	104	QYSBSG3008Z	T.SCREW	2	FOR SUB+REG PWB	
⚠	105	QQT0332-004	POWER TRANSF	1	T9101	
	106	VND5008-001	FCC LABEL(4)	1	TO REAR COVER	
	107	LV42869-001A	CAUTION LABEL	1	TO HDD CASE TOP	
	108	VND4118-006	CAUTION LABEL	1	REAR COVER	
	111	LV21039-003A	LENS HOLDER	1	FOR KEY-PWB	
	112	FMYH4004-001	PLASTIC RIVET	1		
	113	LV42284-002A	LCD LENS	1		

CD mechanism assembly and parts list

Block No. M B M M

FMU-N1-31M



■ Parts list (CD mechanism)

Block No. MBMM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV32649-005A	L.BASE ASSY	1		
	2	LV32651-005A	CH.BASE ASSY	1		
	3	QAR0176-001	FEED MOTOR	1		
	4	VKZ4743-001	SPECIAL SCREW	2		
	5	LV42229-001A	MOTOR GEAR	1		
	6	OPTIMA-725B2	CD PICK UP	1		
	7	LV20993-002A	RACK PLATE	1		
	8	QYSPSGT1735M	MINI SCREW	2		
	9	E406777-002SM	C.D SHAFT	1		
	10	LV41741-001A	SPECIAL SCREW	2		
	11	LV31744-001A	P.S.SPRING	1		
	12	QYSPSGT1425M	TAP SCREW	1		
	13	LV42350-001A	T.T.ASSY	1		
	14	QAR0175-001	SP.MOTOR	1		
	15	VKZ4743-001	SPECIAL SCREW	2		
	16	LVB30008-001A	FPC	1		
	17	LV41424-001A	SPECIAL SCREW	3		
	18	LV41659-001A	INSULATOR	2		
	19	LV41659-002A	INSULATOR	1		
	20	LV10503-001A	TRAY	1		
	21	LV32650-006A	CL.BASE ASSY	1		
	22	QYSBSF2005Z	T.SCREW	2		
	23	LV30225-0B6A	SPACER	2		
	24	QYSBSF2005Z	T.SCREW	3		

■ **Electrical parts list (Micon board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 1	NCB31CK-223X	C CAPACITOR		
	C 2	NCB31HK-103X	C CAPACITOR		
	C 3	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 4	NCB31HK-103X	C CAPACITOR		
	C 6	NCB31HK-102X	C CAPACITOR		
	C 10	NRSA63J-0R0X	MG RESISTOR		
	C 11	NCB31CK-104X	C CAPACITOR		
	C 12	NCB31CK-473X	C CAPACITOR		
	C 13	NCS31HJ-120X	C CAPACITOR		
	C 14	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 15	NCS31HJ-120X	C CAPACITOR		
	C 16	NCS31HJ-120X	C CAPACITOR		
	C 17	NCB31HK-392X	C CAPACITOR		
	C 18	QEQ61HM-474Z	NP E CAPACITOR	.47MF 20% 50V	
	C 19	NCB31CK-473X	C CAPACITOR		
	C 20	NCB31HK-102X	C CAPACITOR		
	C 21	NCB31CK-223X	C CAPACITOR		
	C 22	NCS31HJ-151X	C CAPACITOR		
	C 23	NCS31HJ-151X	C CAPACITOR		
	C 24	NCS31HJ-151X	C CAPACITOR		
	C 25	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 26	NCB31HK-102X	C CAPACITOR		
	C 27	NCB31HK-102X	C CAPACITOR		
	C 30	QEKC1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 31	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 32	NCB31CK-473X	C CAPACITOR		
	C 33	NCB31CK-473X	C CAPACITOR		
	C 34	NCB31CK-223X	C CAPACITOR		
	C 35	NCB31CK-473X	C CAPACITOR		
	C 36	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 37	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 38	QEKC1HM-224Z	E CAPACITOR	.22MF 20% 50V	
	C 39	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 40	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 41	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 42	NCB31HK-222X	C CAPACITOR		
	C 43	NCB31HK-222X	C CAPACITOR		
	C 44	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 45	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 46	NCB31EK-273X	C CAPACITOR		
	C 47	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 48	NCB31HK-222X	C CAPACITOR		
	C 49	NCB31HK-471X	C CAPACITOR		
	C 50	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 51	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 52	QFVJ1HJ-274Z	MF CAPACITOR	.27MF 5% 50V	
	C 53	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 54	NCB31CK-473X	C CAPACITOR		
	C 57	NCB31HK-102X	C CAPACITOR		
	C 58	NCB31EK-473X	C CAPACITOR		
	CF 1	QAX0677-001Z	C FILTER		
	CF 2	QAX0677-001Z	C FILTER		
	CF 3	QAX0610-001Z	C DISCRIMINATOR		
	CN501	QGA2501C3-04Z	CONNECTOR		
	CN602	QGF1205F1-20	CONNECTOR		
	CN603	QGB2016K1-06	CONNECTOR		
	CN604	QGB2016K1-09	CONNECTOR		
	CN605	QGF1205C1-24	CONNECTOR		
	CN692	QGF1205F1-20	CONNECTOR		
	C4311	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C4401	QCSB1HJ-100Y	C CAPACITOR	10PF 5% 50V	
	C4402	QCSB1HJ-100Y	C CAPACITOR	10PF 5% 50V	
	C4403	QDGB1HK-102Y	C CAPACITOR		
	C6111	NCB31HK-562X	C CAPACITOR		
	C6211	NCB31HK-562X	C CAPACITOR		
	C6311	QEKC1CM-107Z	E CAPACITOR	100MF 20% 16V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C6312	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C7201	QER61AM-107Z	E CAPACITOR	100MF 20% 10V	
	C7401	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C7501	NCF31AZ-105X	C CAPACITOR		
	C7502	NCF31AZ-105X	C CAPACITOR		
	C7503	NCF31AZ-105X	C CAPACITOR	V5<->V5OUT	
	C8001	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C8002	NCB31HK-103X	C CAPACITOR		
	C8003	NCB31HK-103X	C CAPACITOR		
	C8005	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C8006	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C8007	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C8008	NCS31HJ-101X	C CAPACITOR		
	C8009	NCS31HJ-101X	C CAPACITOR		
	C8061	NCS31HJ-102X	C CAPACITOR		
	C8062	NCS31HJ-102X	C CAPACITOR		
	C8063	NCS31HJ-470X	C CAPACITOR		
	C8064	NCS31HJ-270X	C CAPACITOR		
	C8065	NCS31HJ-330X	C CAPACITOR		
	C8066	NCS31HJ-470X	C CAPACITOR		
	C8067	NCS31HJ-102X	C CAPACITOR		
	C8071	NCS31HJ-220X	C CAPACITOR		
	C8072	NCS31HJ-220X	C CAPACITOR		
	C8091	NCB31HK-103X	C CAPACITOR		
	C8101	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C8102	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	D 1	1SS133-T2	SI DIODE		
	D 2	1SS133-T2	SI DIODE		
	D 3	1SS133-T2	SI DIODE		
	D 4	1SS133-T2	SI DIODE		
	DI701	QLD0221-001	LCD MODULE		
	D4401	MTZJ7.5C-T2	ZENER DIODE		
	D4402	MTZJ7.5C-T2	ZENER DIODE		
	D6311	MTZJ3.9B-T2	ZENER DIODE		
	D6312	1SS133-T2	SI DIODE		
	D6313	1SS133-T2	SI DIODE		
	D7301	SLI-343URC3F	LED	STBY RED	
	D7302	SLA-360MT3F	LED	P-ON GREEN	
	D7303	SELU2E10C-S	LED	VOLKEY BLUE	
	D7305	MTZJ7.5C-T2	ZENER DIODE		
	D7401	NSPW510BS/BRS/	LED		
	D7402	NSPW510BS/BRS/	LED		
	D7403	NSPW510BS/BRS/	LED		
	D7404	MTZJ7.5C-T2	ZENER DIODE		
	D7405	MTZJ7.5C-T2	ZENER DIODE		
	D7406	MTZJ7.5C-T2	ZENER DIODE		
	D7601	SMLU12E16C	LED	HDD P/R	
	D7602	MTZJ7.5C-T2	ZENER DIODE		
	D8001	1SS133-T2	SI DIODE		
	D8002	1SS133-T2	SI DIODE		
	D8003	1SS133-T2	SI DIODE		
	D8012	RB441Q-40-T2	S.B.DIODE		
	D8013	1SS133-T2	SI DIODE		
	D8014	1SS133-T2	SI DIODE		
	D8015	1SS133-T2	SI DIODE		
	D8016	1SS133-T2	SI DIODE		
	D8017	1SS133-T2	SI DIODE		
	D8018	1SS133-T2	SI DIODE		
	D8019	1N4003S-T5	SI DIODE		
	D8101	MTZJ5.1C-T2	ZENER DIODE		
	D8102	1SS133-T2	SI DIODE		
	D8103	1SS133-T2	SI DIODE		
	D9902	1SS133-T2	SI DIODE		
	EP102	QNZ0136-001Z	EARTH PLATE		
	IC 1	LA1838	IC		
	IC 2	LC72136N	IC		

■ **Electrical parts list (Micon board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	IC721	GP1UM271XK	IR DETECT UNIT		
	IC801	MN101C49HJT	IC (MCU)		
	J 1	QNB0014-001	ANT TERMINAL		
	J4301	QNS0030-001	JACK		
	J4401	QND0096-001	DIN CONNECTOR		
	J6301	QNN0018-002	PIN JACK		
	L 1	QQR0796-002	COIL BLOCK		
	L6101	QQR0590-001	FILTER		
	L6201	QQR0590-001	FILTER		
	Q 1	2SC2814/4-5/-X	TRANSISTOR		
	Q 5	KRA107S-X	TRANSISTOR		
	Q6101	2SD2114K/VW/-X	CHIP TRANSISTOR		
	Q6201	2SD2114K/VW/-X	CHIP TRANSISTOR		
	Q6301	UN2113-X	TRANSISTOR		
	Q6311	2SB709A/R/-X	TRANSISTOR		
	Q6312	2SD601A/R/-X	TRANSISTOR		
	Q6320	2SB709A/R/-X	TRANSISTOR		
	Q6321	UN2211-X	TRANSISTOR		
	Q7301	2SD601A/R/-X	TRANSISTOR		
	Q7302	2SD601A/R/-X	TRANSISTOR		
	Q7303	2SD601A/R/-X	TRANSISTOR		
	Q7401	2SD601A/R/-X	TRANSISTOR		
	Q7402	2SD601A/R/-X	TRANSISTOR		
	Q7403	2SD601A/R/-X	TRANSISTOR		
	Q7404	2SD601A/R/-X	TRANSISTOR		
	Q7501	2SB709A/R/-X	TRANSISTOR		
	Q7502	2SB709A/R/-X	TRANSISTOR		
	Q7503	2SB709A/R/-X	TRANSISTOR		
	Q7507	2SK209/G/-X	FET		
	Q7508	2SK209/G/-X	FET		
	Q7509	2SK209/G/-X	FET		
	Q7601	UN2111-X	TRANSISTOR		
	Q7602	UN2111-X	TRANSISTOR		
	Q7603	2SD601A/R/-X	TRANSISTOR		
	Q7604	2SD601A/R/-X	TRANSISTOR		
	Q8061	2SC2668/O/-T	TRANSISTOR		
	Q8062	2SC2668/O/-T	TRANSISTOR		
	Q8093	2SD601A/R/-X	TRANSISTOR		
	Q8094	2SD601A/R/-X	TRANSISTOR		
	Q8095	KRC107S-X	D TRANSISTOR		
	Q8101	UN2213-X	TRANSISTOR		
	Q8102	KRC107S-X	D TRANSISTOR		
	Q8103	UN2213-X	TRANSISTOR		
	Q9901	2SB709A/R/-X	TRANSISTOR		
	Q9902	UN2211-X	TRANSISTOR		
	R 1	QRE141J-560Y	C RESISTOR	56 5% 1/4W	
	R 2	NRSA63J-331X	MG RESISTOR		
	R 3	NRSA63J-224X	MG RESISTOR		
	R 4	NRSA63J-331X	MG RESISTOR		
	R 5	NRSA63J-560X	MG RESISTOR		
	R 6	NRSA63J-240X	MG RESISTOR		
	R 10	NRSA63J-222X	MG RESISTOR		
	R 13	NRSA63J-103X	MG RESISTOR		
	R 14	NRSA63J-104X	MG RESISTOR		
	R 15	NRSA63J-332X	MG RESISTOR		
	R 16	NRSA63J-472X	MG RESISTOR		
⚠	R 17	QRZ9005-680X	F RESISTOR	68 1/4W	
	R 18	NRSA63J-102X	MG RESISTOR		
	R 19	NRSA63J-102X	MG RESISTOR		
	R 20	NRSA63J-102X	MG RESISTOR		
	R 21	NRSA63J-562X	MG RESISTOR		
	R 22	NRSA63J-472X	MG RESISTOR		
	R 23	NRSA63J-182X	MG RESISTOR		
	R 24	NRSA63J-103X	MG RESISTOR		
	R 25	NRSA63J-331X	MG RESISTOR		
	R 26	NRSA63J-222X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 27	NRSA63J-103X	MG RESISTOR		
	R 28	NRSA63J-103X	MG RESISTOR		
	R 29	NRSA63J-103X	MG RESISTOR		
	R 31	NRSA63J-102X	MG RESISTOR		
	R 32	NRSA63J-102X	MG RESISTOR		
	R 33	NRSA63J-331X	MG RESISTOR		
	R 34	NRSA63J-470X	MG RESISTOR		
	R 35	NRSA63J-562X	MG RESISTOR		
	R 36	NRSA63J-332X	MG RESISTOR		
	R 37	NRSA63J-103X	MG RESISTOR		
	R 38	NRSA63J-563X	MG RESISTOR		
	R 39	NRSA63J-563X	MG RESISTOR		
	R 40	NRSA63J-243X	MG RESISTOR		
	R 41	NRSA63J-332X	MG RESISTOR		
	R 60	NRSA63J-0R0X	MG RESISTOR		
	R4101	NRSA63J-151X	MG RESISTOR		
	R4201	NRSA63J-151X	MG RESISTOR		
	R4401	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R4403	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R4404	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R6101	NRSA63J-101X	MG RESISTOR		
	R6103	NRSA63J-102X	MG RESISTOR		
	R6104	NRSA63J-392X	MG RESISTOR		
	R6105	NRSA63J-183X	MG RESISTOR		
	R6106	NRSA63J-222X	MG RESISTOR		
	R6111	NRSA63J-102X	MG RESISTOR		
	R6112	NRSA63J-512X	MG RESISTOR		
	R6114	NRSA63J-221X	MG RESISTOR		
	R6133	NRSA63J-103X	MG RESISTOR		
	R6201	NRSA63J-101X	MG RESISTOR		
	R6203	NRSA63J-102X	MG RESISTOR		
	R6204	NRSA63J-392X	MG RESISTOR		
	R6205	NRSA63J-183X	MG RESISTOR		
	R6206	NRSA63J-222X	MG RESISTOR		
	R6211	NRSA63J-102X	MG RESISTOR		
	R6212	NRSA63J-512X	MG RESISTOR		
	R6214	NRSA63J-221X	MG RESISTOR		
	R6232	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R6233	NRSA63J-103X	MG RESISTOR		
	R6311	NRSA63J-390X	MG RESISTOR		
	R6312	NRSA63J-102X	MG RESISTOR		
	R6313	NRSA63J-273X	MG RESISTOR		
	R6320	NRSA63J-103X	MG RESISTOR		
	R6321	NRSA63J-102X	MG RESISTOR		
	R7002	NRSA63J-202X	MG RESISTOR		
	R7003	NRSA63J-152X	MG RESISTOR		
	R7004	NRSA63J-182X	MG RESISTOR		
	R7005	NRSA63J-222X	MG RESISTOR		
	R7006	NRSA63J-332X	MG RESISTOR		
	R7007	NRSA63J-512X	MG RESISTOR		
	R7008	NRSA63J-512X	MG RESISTOR		
	R7009	NRSA63J-183X	MG RESISTOR		
	R7102	NRSA63J-202X	MG RESISTOR		
	R7103	NRSA63J-152X	MG RESISTOR		
	R7104	NRSA63J-182X	MG RESISTOR		
	R7105	NRSA63J-222X	MG RESISTOR		
	R7106	NRSA63J-332X	MG RESISTOR		
	R7107	NRSA63J-512X	MG RESISTOR		
	R7108	NRSA63J-512X	MG RESISTOR		
	R7301	NRSA63J-821X	MG RESISTOR		
	R7302	NRSA63J-331X	MG RESISTOR		
	R7303	NRSA63J-681X	MG RESISTOR		
	R7304	NRSA63J-681X	MG RESISTOR		
	R7305	NRSA63J-681X	MG RESISTOR		
	R7401	NRSA63J-391X	MG RESISTOR		
	R7402	NRSA63J-391X	MG RESISTOR		

■ **Electrical parts list (Micon board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	R7403	NRSA63J-391X	MG RESISTOR		
	R7404	NRSA63J-391X	MG RESISTOR		
	R7405	NRSA63J-391X	MG RESISTOR		
	R7406	NRSA63J-391X	MG RESISTOR		
	R7407	NRSA63J-391X	MG RESISTOR		
	R7408	NRSA63J-391X	MG RESISTOR		
	R7409	NRSA63J-391X	MG RESISTOR		
	R7410	NRSA63J-103X	MG RESISTOR		
	R7411	NRSA63J-222X	MG RESISTOR		
	R7412	NRSA63J-222X	MG RESISTOR		
	R7413	NRSA63J-102X	MG RESISTOR		
	R7501	NRSA63J-103X	MG RESISTOR		
	R7502	NRSA63J-103X	MG RESISTOR		
	R7503	NRSA63J-103X	MG RESISTOR		
	R7504	NRSA63J-475X	MG RESISTOR		
	R7505	NRSA63J-475X	MG RESISTOR		
	R7506	NRSA63J-475X	MG RESISTOR		
	R7507	NRSA63J-475X	MG RESISTOR		
	R7508	NRSA63J-475X	MG RESISTOR		
	R7509	NRSA63J-475X	MG RESISTOR		
	R7511	NRSA63J-392X	MG RESISTOR		
	R7512	NRSA63J-102X	MG RESISTOR		
	R7513	NRSA63J-182X	MG RESISTOR		
	R7514	NRSA63J-332X	MG RESISTOR		
	R7601	NRSA63J-391X	MG RESISTOR		
	R7602	NRSA63J-391X	MG RESISTOR		
	R7603	NRSA63J-561X	MG RESISTOR		
	R7604	NRSA63J-471X	MG RESISTOR		
	R8001	NRSA63J-222X	MG RESISTOR		
	R8002	NRSA63J-222X	MG RESISTOR		
	R8003	NRSA63J-102X	MG RESISTOR		
	R8004	NRSA63J-102X	MG RESISTOR		
	R8005	NRSA63J-102X	MG RESISTOR		
	R8006	NRSA63J-102X	MG RESISTOR		
	R8007	NRSA63J-102X	MG RESISTOR		
	R8008	NRSA63J-102X	MG RESISTOR		
	R8009	NRSA63J-102X	MG RESISTOR		
	R8010	NRSA63J-101X	MG RESISTOR		
	R8011	NRSA63J-222X	MG RESISTOR		
	R8014	NRSA63J-102X	MG RESISTOR		
	R8016	NRSA63J-101X	MG RESISTOR		
	R8017	NRSA63J-102X	MG RESISTOR		
	R8020	NRSA63J-101X	MG RESISTOR		
	R8021	NRSA63J-101X	MG RESISTOR		
	R8022	NRSA63J-101X	MG RESISTOR		
	R8023	NRSA63J-222X	MG RESISTOR		
	R8024	NRSA63J-222X	MG RESISTOR		
	R8025	NRSA63J-101X	MG RESISTOR		
	R8026	NRSA63J-102X	MG RESISTOR		
	R8027	NRSA63J-101X	MG RESISTOR		
	R8028	NRSA63J-101X	MG RESISTOR		
	R8029	NRSA63J-101X	MG RESISTOR		
	R8030	NRSA63J-101X	MG RESISTOR		
	R8031	NRSA63J-101X	MG RESISTOR		
	R8032	NRSA63J-101X	MG RESISTOR		
	R8033	NRSA63J-102X	MG RESISTOR		
	R8034	NRSA63J-102X	MG RESISTOR		
	R8035	NRSA63J-222X	MG RESISTOR		
	R8036	NRSA63J-222X	MG RESISTOR		
	R8037	NRSA63J-222X	MG RESISTOR		
	R8038	NRSA63J-222X	MG RESISTOR		
	R8039	NRSA63J-222X	MG RESISTOR		
	R8040	NRSA63J-222X	MG RESISTOR		
	R8041	NRSA63J-222X	MG RESISTOR		
	R8042	NRSA63J-222X	MG RESISTOR		
	R8043	NRSA63J-222X	MG RESISTOR		
	R8044	NRSA63J-222X	MG RESISTOR		
	R8045	NRSA63J-222X	MG RESISTOR		
	R8046	NRSA63J-222X	MG RESISTOR		
	R8048	NRSA63J-222X	MG RESISTOR		
	R8049	NRSA63J-222X	MG RESISTOR		
	R8050	NRSA63J-122X	MG RESISTOR		
	R8051	NRSA63J-222X	MG RESISTOR		
	R8052	NRSA63J-102X	MG RESISTOR		
	R8053	NRSA63J-103X	MG RESISTOR		
	R8055	NRSA63J-102X	MG RESISTOR		
	R8056	NRSA63J-101X	MG RESISTOR		
	R8057	NRSA63J-102X	MG RESISTOR		
	R8058	NRSA63J-223X	MG RESISTOR		
	R8059	NRSA63J-223X	MG RESISTOR		
	R8060	NRSA63J-102X	MG RESISTOR		
	R8061	NRSA63J-103X	MG RESISTOR		
	R8062	NRSA63J-822X	MG RESISTOR		
	R8063	NRSA63J-822X	MG RESISTOR		
	R8064	NRSA63J-103X	MG RESISTOR		
	R8065	NRSA63J-222X	MG RESISTOR		
	R8066	NRSA63J-102X	MG RESISTOR		
	R8070	NRSA63J-103X	MG RESISTOR		
	R8071	NRSA63J-103X	MG RESISTOR		
	R8072	NRSA63J-470X	MG RESISTOR		
	R8074	NRSA63J-103X	MG RESISTOR		
	R8081	NRSA63J-103X	MG RESISTOR		
	R8083	NRSA63J-103X	MG RESISTOR		
	R8092	NRSA63J-104X	MG RESISTOR		
	R8093	NRSA63J-104X	MG RESISTOR		
	R8094	NRSA63J-103X	MG RESISTOR		
	R8095	NRSA63J-102X	MG RESISTOR		
	R8101	NRSA63J-103X	MG RESISTOR		
	R8102	NRSA63J-103X	MG RESISTOR		
	R8103	NRSA63J-104X	MG RESISTOR		
	R8106	NRSA63J-121X	MG RESISTOR		
	R9904	NRSA63J-103X	MG RESISTOR		
	R9905	NRSA63J-102X	MG RESISTOR		
	R9910	QRJ146J-3R3X	UNF C RESISTOR	3.3 5% 1/4W	
	S7001	QSW0651-001Z	TACT SWITCH	REC START	
	S7002	QSW0651-001Z	TACT SWITCH	<<	
	S7003	QSW0651-001Z	TACT SWITCH	STOP	
	S7004	QSW0651-001Z	TACT SWITCH	>>	
	S7005	QSW0651-001Z	TACT SWITCH	LINE/USB	
	S7006	QSW0651-001Z	TACT SWITCH	VOL UP	
	S7007	QSW0651-001Z	TACT SWITCH	VOL DOWN	
	S7008	QSW0651-001Z	TACT SWITCH		
	S7009	QSW0651-001Z	TACT SWITCH		
	S7101	QSW0651-001Z	TACT SWITCH	CD OPEN/CLOSE	
	S7102	QSW0651-001Z	TACT SWITCH	FM/AM	
	S7103	QSW0651-001Z	TACT SWITCH	CD PLAY	
	S7104	QSW0651-001Z	TACT SWITCH	MD PLAY	
	S7105	QSW0651-001Z	TACT SWITCH	REC LEVEL	
	S7106	QSW0651-001Z	TACT SWITCH	POWER	
	S7107	QSW0651-001Z	TACT SWITCH	MD EJECT	
	S7108	QSW0651-001Z	TACT SWITCH		
	T 1	QQR0793-001	IFT		
	TU 1	QAU0161-001	FRONT END		
	VR761	QVP0008-103Z	SEMI V RESISTOR		
	W 391	QJK008-051600	SIN CR C-B WIRE	HEADPHONE-MAIN	
	W 691	QJK005-041604	SIN CR C-B WIRE	PS2 -MICOM	
	X 1	QAX0402-001	CRYSTAL		
	X8061	QAX0416-001Z	CERA LOCK	8.00MHZ	
	X8071	QAX0401-001	CRYSTAL		

■ **Electrical parts list (Main board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	CN301	QGA2501C3-05Z	CONNECTOR		
	CN511	QGF1016C1-27	CONNECTOR		
	CN661	QGF1016F3-19	CONNECTOR		
	CN693	QGB2016J1-06	CONNECTOR		
	CN694	QGB2016J1-09	CONNECTOR		
	CN695	QGF1205C1-24	CONNECTOR		
	CN901	QGB2016K1-09	CONNECTOR		
	CN903	QGA2501F1-02	CONNECTOR		
	CN904	QGB2510J1-10	CONNECTOR		
⚠	CN921	QGA7901C1-02	CONNECTOR		
	CN991	QGB2016J1-09	CONNECTOR		
	CN994	QGB2510K2-10	CONNECTOR		
	CN995	QGA2501F1-13	CONNECTOR		
	C1101	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1102	QFLC1HJ-823Z	M CAPACITOR	.082MF 5% 50V	
	C1103	QFLC1HJ-823Z	M CAPACITOR	.082MF 5% 50V	
	C1104	QFVF1HJ-474Z	MF CAPACITOR	.47MF 5% 50V	
	C1105	QFVF1HJ-105Z	MF CAPACITOR	1.0MF 5% 50V	
	C1106	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C1107	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C1108	QFLC1HJ-122Z	M CAPACITOR	1200PF 5% 50V	
	C1111	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1112	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1113	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1114	QTE1V06-106Z	E CAPACITOR		
	C1115	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1116	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1117	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1122	QTE1V06-106Z	E CAPACITOR		
	C1123	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1124	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C1125	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C1128	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1129	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1130	QFVF1HJ-334Z	MF CAPACITOR	.33MF 5% 50V	
	C1131	QFVF1HJ-334Z	MF CAPACITOR	.33MF 5% 50V	
	C1134	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1142	QCBB1HK-222Y	C CAPACITOR	2200PF 10% 50V	
	C1161	QENC1EM-106Z	NP E CAPACITOR	10MF 20% 25V	
	C1201	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1202	QFLC1HJ-823Z	M CAPACITOR	.082MF 5% 50V	
	C1203	QFLC1HJ-823Z	M CAPACITOR	.082MF 5% 50V	
	C1204	QFVF1HJ-474Z	MF CAPACITOR	.47MF 5% 50V	
	C1205	QFVF1HJ-105Z	MF CAPACITOR	1.0MF 5% 50V	
	C1206	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C1207	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C1208	QFLC1HJ-122Z	M CAPACITOR	1200PF 5% 50V	
	C1211	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1212	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1213	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1214	QTE1V06-106Z	E CAPACITOR		
	C1215	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1216	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1217	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1222	QTE1V06-106Z	E CAPACITOR		
	C1223	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1224	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C1225	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C1228	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1229	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1230	QFVF1HJ-334Z	MF CAPACITOR	.33MF 5% 50V	
	C1231	QFVF1HJ-334Z	MF CAPACITOR	.33MF 5% 50V	
	C1234	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C1242	QCBB1HK-222Y	C CAPACITOR	2200PF 10% 50V	
	C1261	QENC1EM-106Z	NP E CAPACITOR	10MF 20% 25V	
	C3001	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C3002	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	
	C3101	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C3102	QTE1C28-226Z	E CAPACITOR		
	C3103	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C3104	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C3105	QTE1C06-107Z	E CAPACITOR		
	C3106	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C3107	QETN1HM-336Z	E CAPACITOR	33MF 20% 50V	
	C3108	QETN1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C3113	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C3114	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C3115	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C3116	QER61HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C3151	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C3182	QTE1V06-106Z	E CAPACITOR		
	C3183	QTE1C06-476Z	E CAPACITOR		
	C3190	QEZ0578-828	E CAPACITOR	8200MF	
	C3191	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C3192	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C3193	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	
	C3194	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C3198	QTE1V06-476Z	E CAPACITOR		
	C3511	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
⚠	C9101	QCZ9105-472	C CAPACITOR	4700PF	
	C9102	QETM1EM-108	E CAPACITOR	1000MF 20% 25V	
	C9103	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C9201	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C9202	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C9203	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C9204	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C9205	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C9206	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C9207	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	
	C9208	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C9209	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C9301	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C9302	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C9305	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C9307	QETM1CM-228	E CAPACITOR	2200MF 20% 16V	
	C9308	QETM1CM-228	E CAPACITOR	2200MF 20% 16V	
	C9601	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C9603	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C9604	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	
	C9605	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	
	C9701	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C9702	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C9703	QETN1CM-476Z	E CAPACITOR	47MF 20% 16V	
	C9801	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V	
	D1101	1SS133-T2	SI DIODE		
	D1102	1SS133-T2	SI DIODE		
	D1201	1SS133-T2	SI DIODE		
	D1202	1SS133-T2	SI DIODE		
	D3105	MTZJ6.8B-T2	ZENER DIODE		
	D3106	1SS133-T2	SI DIODE		
	D3107	1SS133-T2	SI DIODE		
	D3181	RD3.3ES/B2/-T2	ZENER DIODE		
	D3191	MTZJ9.1A-T2	ZENER DIODE		
	D9101	1SS133-T2	SI DIODE		
	D9102	1SS133-T2	SI DIODE		
	D9103	1N4003S-T5	SI DIODE		
	D9104	MTZJ5.6A-T2	ZENER DIODE		
	D9105	1SS133-T2	SI DIODE		
⚠	D9201	RS603M	SI DIODE		
	D9202	MTZJ8.2B-T2	DIODE		
⚠	D9301	1N4003S-T5	SI DIODE		
⚠	D9302	1N4003S-T5	SI DIODE		

■ **Electrical parts list (Main board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	D9303	1N4003S-T5	SI DIODE		
⚠	D9304	1N4003S-T5	SI DIODE		
⚠	D9305	1N4003S-T5	SI DIODE		
⚠	D9306	1N4003S-T5	SI DIODE		
⚠	D9307	1N4003S-T5	SI DIODE		
⚠	D9308	1N4003S-T5	SI DIODE		
⚠	D9309	1N4003S-T5	SI DIODE		
⚠	D9310	1N4003S-T5	SI DIODE		
	D9601	1SS133-T2	SI DIODE		
	D9602	MTZJ6.2B-T2	ZENER DIODE		
	D9701	MTZJ6.2C-T2	Z DIODE		
	EP301	QNZ0136-001Z	EARTH PLATE		
⚠	FT901	QNG0003-001Z	FUSE CLIP	FOR F9001	
⚠	FT902	QNG0003-001Z	FUSE CLIP	FOR F9001	
⚠	FT903	QNG0003-001Z	FUSE CLIP	FOR F9002	
⚠	FT904	QNG0003-001Z	FUSE CLIP	FOR F9002	
⚠	FT909	QNG0003-001Z	FUSE CLIP	FOR F9001	
⚠	FT910	QNG0003-001Z	FUSE CLIP	FOR F9001	
⚠	IC301	LA4628	IC		
	IC302	LC75345M-X	IC		
⚠	IC961	UPC7805AHF	IC		
	J3001	QNB0090-002	SPK TERMINAL		
⚠	J9001	QNC0082-001	AC INLET		
	K3151	QQR0621-001Z	FERRITE BEADS	D+5V	
	K3152	QQR0621-001Z	FERRITE BEADS	DGND	
	K3153	QQR0621-001Z	FERRITE BEADS	AGND	
	K3154	QQR0621-001Z	FERRITE BEADS	MGND	
	K3155	QQR0621-001Z	FERRITE BEADS	M+8V	
⚠	LF901	QQR1145-001	LINE FILTER		
	L3151	QQL244K-100Z	INDUCTOR		
	L3152	QQL244K-100Z	INDUCTOR		
	Q1001	2SC3576-JVC-T	TRANSISTOR		
	Q1101	KTC3199/GL/-T	TRANSISTOR		
	Q1161	KRA109M-T	D.TRANSISTOR		
	Q1162	KRA109M-T	D.TRANSISTOR		
	Q1201	KTC3199/GL/-T	TRANSISTOR		
	Q1261	KRA109M-T	D.TRANSISTOR		
	Q1262	KRA109M-T	D.TRANSISTOR		
	Q2001	2SC3576-JVC-T	TRANSISTOR		
	Q3001	KRA101M-T	TRANSISTOR		
	Q3181	KTA1273/Y/-T	TRANSISTOR		
	Q3182	2SC2785/FE/-T	TRANSISTOR		
⚠	Q3191	KTA1046/Y/	TRANSISTOR		
	Q3192	2SC2785/FE/-T	TRANSISTOR		
	Q3193	2SC2785/FE/-T	TRANSISTOR		
	Q3194	KRA102M-T	D.TRANSISTOR		
	Q3511	KRC109M-T	D.TRANSISTOR		
	Q9101	KTA1046/Y/	TRANSISTOR		
	Q9102	2SC2785/FE/-T	TRANSISTOR		
	Q9103	2SC2785/FE/-T	TRANSISTOR		
	Q9104	2SC2785/FE/-T	TRANSISTOR		
⚠	Q9201	KTB772/Y/	TRANSISTOR		
	Q9202	2SC2785/FE/-T	TRANSISTOR		
	Q9203	2SC2785/FE/-T	TRANSISTOR		
⚠	Q9701	KTB772/Y/	TRANSISTOR		
	Q9702	2SC2785/FE/-T	TRANSISTOR		
	Q9703	KRA102M-T	D.TRANSISTOR		
	Q9801	2SA952/LK/-T	TRANSISTOR		
	Q9802	2SC2785/FE/-T	TRANSISTOR		
⚠	RY911	QSK0124-001	RELAY		
	R1101	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R1102	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R1103	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1104	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1105	QRE141J-752Y	C RESISTOR	7.5K 5% 1/4W	
	R1106	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
	R1120	QRE141J-274Y	C RESISTOR	270K 5% 1/4W	
	R1121	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1122	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R1123	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1124	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R1125	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R1126	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1127	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1128	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R1129	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R1130	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R1133	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1134	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1143	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1144	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1151	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1161	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R1162	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R1201	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R1202	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R1203	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1204	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1205	QRE141J-752Y	C RESISTOR	7.5K 5% 1/4W	
	R1206	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	
	R1220	QRE141J-274Y	C RESISTOR	270K 5% 1/4W	
	R1221	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1222	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R1223	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1224	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R1225	QRE141J-2R2Y	C RESISTOR	2.2 5% 1/4W	
	R1226	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1227	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1228	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R1229	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R1230	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R1233	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1234	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1243	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1244	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1251	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1261	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R1262	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R3101	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R3102	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R3103	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R3106	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R3110	QRE141J-513Y	C RESISTOR	51K 5% 1/4W	
	R3111	QRJ146J-4R7X	UNF C RESISTOR	4.7 5% 1/4W	
	R3112	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R3113	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R3132	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3133	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3134	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3137	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3138	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3139	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3151	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3152	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3153	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3154	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3155	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3156	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R3181	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R3182	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R3183	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R3191	QRE141J-471Y	C RESISTOR	470 5% 1/4W	

■ **Electrical parts list (Main board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	R3192	QRE141J-682Y	C RESISTOR	6.8K 5% 1/4W	
	R3193	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R3194	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R3195	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R3196	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R3197	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R3199	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R3301	QRE141J-683Y	C RESISTOR	MD+5.6V/D+5.6V	
	R3302	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R3303	QRE141J-273Y	C RESISTOR	SW+9V	
	R3304	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R3305	QRE141J-333Y	C RESISTOR	SW+8V	
	R3306	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R5101	QRE141J-363Y	C RESISTOR	36K 5% 1/4W	
	R5102	QRE141J-363Y	C RESISTOR	36K 5% 1/4W	
	R5201	QRE141J-363Y	C RESISTOR	36K 5% 1/4W	
	R5202	QRE141J-363Y	C RESISTOR	36K 5% 1/4W	
⚠	R9009	QRZ9037-335	F RESISTOR	3.3M 1/4W	
	R9101	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R9102	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R9103	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R9104	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R9105	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R9106	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R9201	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R9202	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R9203	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R9204	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R9205	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R9206	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R9207	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R9301	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
⚠	R9607	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
⚠	R9608	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
	R9701	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R9702	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R9703	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R9704	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R9705	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
	R9706	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
	R9801	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
⚠	T9102	QQT0253-012	POWER TRANS		
	W 301	QUB270-15HPDM	CONNECTOR	MAIN - H.SINK	
	W 302	QUB220-08HPHP	SIN TWIST WIRE		
	W 303	QUB220-14HPHP	SIN TWIST WIRE		
	W 501	QUB270-15HPDM	CONNECTOR	JOIN PB-HDD CAS	
	W 905	WJK0124-001A	E-SI C WIRE C-B	TRANS 2ND-REG P	
⚠	W 911	WJK0123-001A	E-SI C WIRE C-B	TRANS PRIM-AC I	

■ **Electrical parts list (HDD board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 901	NBE20JM-106X	TS E CAP SVB20J		
	C 902	NCF31CZ-104X	C CAPACITOR		
	C 903	NCF31CZ-104X	C CAPACITOR		
	C 904	NBE40JM-476X	TS E CAPACITOR		
	C 905	NBE20JM-106X	TS E CAP SVB20J		
	C 906	NCF31CZ-104X	C CAPACITOR		
	C 907	NCF31CZ-104X	C CAPACITOR		
	C 908	NBE40JM-476X	TS E CAPACITOR		
	C 909	NCB31HK-222X	C CAPACITOR		
	C 910	NBE20JM-106X	TS E CAP SVB20J		
	C 911	NCF31CZ-104X	C CAPACITOR		
	C 912	NBE20JM-106X	TS E CAP SVB20J		
	C 913	NCF31CZ-104X	C CAPACITOR		
	C 914	NCF31CZ-104X	C CAPACITOR		
	C 915	NBE21EM-105X	E CAPACITOR		
	C 916	NBE41AM-106X	E CAPACITOR		
	C 917	NBE41AM-106X	E CAPACITOR		
	C 918	NBE41AM-106X	E CAPACITOR		
	C 919	NBE41AM-106X	E CAPACITOR		
	C 920	NCB31HK-222X	C CAPACITOR		
	C 921	NBE20JM-226X	TS E CAPACITOR		
	C 922	NCB31HK-222X	C CAPACITOR		
	C 923	NBE20JM-226X	TS E CAPACITOR		
	C 924	NCF31CZ-104X	C CAPACITOR		
	C 925	NCF31CZ-104X	C CAPACITOR		
	C 926	NBE20JM-475X	TS E CAPACITOR		
	C 929	NBE40JM-476X	TS E CAPACITOR		
	C 930	NBE40JM-476X	TS E CAPACITOR		
	C 931	NBE40JM-476X	TS E CAPACITOR		
	C 932	NBE40JM-476X	TS E CAPACITOR		
	C 933	NBE40JM-476X	TS E CAPACITOR		
	C 934	NBE40JM-476X	TS E CAPACITOR		
	C 935	NCS31HJ-101X	C CAPACITOR		
	C 936	NCS31HJ-101X	C CAPACITOR		
	C 937	NCS31HJ-101X	C CAPACITOR		
	C 938	NCS31HJ-101X	C CAPACITOR		
	C 939	NCS31HJ-101X	C CAPACITOR		
	C 940	NCS31HJ-101X	C CAPACITOR		
	C 941	NCB31CK-473X	C CAPACITOR		
	C 942	NCB31HK-331X	C CAPACITOR		
	CA901	NBE40JM-476X	TS E CAPACITOR		
	CA902	NCB31HK-103X	C CAPACITOR		
	CA903	NBE20JM-106X	TS E CAP SVB20J		
	CA904	NCB31HK-103X	C CAPACITOR		
	CA905	NCF31CZ-104X	C CAPACITOR		
	CA906	NCB31HK-103X	C CAPACITOR		
	CA907	NCF31CZ-104X	C CAPACITOR		
	CA908	NCS31HJ-1R0X	C CAPACITOR		
	CA909	NCS31HJ-2R0X	C CAPACITOR		
	CA912	NCB30JK-105X	C CAPACITOR		
	CC901	NBE40JM-336X	TS E CAPACITOR		
	CC902	NCF31CZ-104X	C CAPACITOR		
	CC903	NCB31AK-334X	C CAPACITOR		
	CC904	NCF31CZ-104X	C CAPACITOR		
	CC905	NBE40JM-476X	TS E CAPACITOR		
	CC906	NCB31HK-103X	C CAPACITOR		
	CC907	NCB31HK-103X	C CAPACITOR		
	CC908	NBE40JM-476X	TS E CAPACITOR		
	CD901	NBE40JM-476X	TS E CAPACITOR		
	CD902	NCB31HK-103X	C CAPACITOR		
	CD903	NCS31HJ-220X	C CAPACITOR		
	CD904	NCS31HJ-220X	C CAPACITOR		
	CE901	NCF31CZ-104X	C CAPACITOR		
	CE902	NCF31CZ-104X	C CAPACITOR		
	CE903	NCF31CZ-104X	C CAPACITOR		
	CF901	NCF31CZ-104X	C CAPACITOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	CF902	NCF31CZ-104X	C CAPACITOR		
	CF903	NCF31CZ-104X	C CAPACITOR		
	CF904	NCF31CZ-104X	C CAPACITOR		
	CN930	QGF1006F2-08W	SOCKET		
	CN931	QGF1006F2-27W	CONNECTOR		
	CN932	QGF1037F1-04W	CONNECTOR		
	CN933	NNZ0077-001X	HDD SOCKET		
	IC901	UPC2933AT-W	IC		
	IC902	UPC2925T-W	IC		
	IC903	XC61FN2712M-X	IC		
	IC904	AK4552VT-X	IC		
	IC905	TC74VHCT08AFT-X	IC		
	IC906	TC74VHC244FT-X	IC		
	IC910	LC895871	IC		
	IC911	LC32V4265T-25	IC		
	IC930	TC9486F-001	IC		
	IC931	TC7SA08FU-X	IC		
	IC932	TC74VHC125FT-X	IC		
	IC940	UPD703100AGJ-33	IC		
	IC950	MBV400TC70PTB03	IC		
	IC951	UPD442012AGYC70	IC		
	IC952	TC74LCX08FT-X	IC		
	IC960	TC74LCX04FT-X	IC		
	IC961	TC74LCX32FT-X	IC		
	IC962	TC74LCX32FT-X	IC		
	IC963	TC74LCX32FT-X	IC		
	L 901	NQR0353-002X	FERRITE BEADS		
	Q 901	2SD2114K/VW/-X	CHIP TRANSISTOR		
	Q 902	2SD2114K/VW/-X	CHIP TRANSISTOR		
	Q 903	2SA1037AK/RS/-X	TRANSISTOR		
	Q 904	DTC144TKA-X	TRANSISTOR		
	R 901	NRSA63J-102X	MG RESISTOR		
	R 902	NRSA63J-100X	MG RESISTOR		
	R 903	NRSA63J-102X	MG RESISTOR		
	R 904	NRSA63J-113X	MG RESISTOR		
	R 905	NRSA63J-113X	MG RESISTOR		
	R 906	NRSA63J-102X	MG RESISTOR		
	R 907	NRSA63J-221X	MG RESISTOR		
	R 908	NRSA63J-102X	MG RESISTOR		
	R 909	NRSA63J-473X	MG RESISTOR		
	R 910	NRSA63J-471X	MG RESISTOR		
	R 911	NRSA63J-221X	MG RESISTOR		
	R 912	NRSA63J-102X	MG RESISTOR		
	R 913	NRSA63J-473X	MG RESISTOR		
	R 914	NRSA63J-471X	MG RESISTOR		
	R 915	NRSA63J-104X	MG RESISTOR		
	R 916	NRSA63J-104X	MG RESISTOR		
	R 917	NRSA63J-104X	MG RESISTOR		
	R 918	NRSA63J-104X	MG RESISTOR		
	R 919	NRSA63J-104X	MG RESISTOR		
	R 920	NRSA63J-104X	MG RESISTOR		
	R 921	NRSA63J-104X	MG RESISTOR		
	R 922	NRSA63J-104X	MG RESISTOR		
	R 923	NRSA63J-223X	MG RESISTOR		
	R 924	NRSA63J-223X	MG RESISTOR		
	R 938	NQR0463-001X	FERRITE BEADS		
	R 939	NQR0463-002X	FERRITE BEADS		
	R 945	NRSA63J-101X	MG RESISTOR		
	R 946	NRSA63J-101X	MG RESISTOR		
	R 947	NRSA63J-102X	MG RESISTOR		
	R 948	NRSA63J-101X	MG RESISTOR		
	R 949	NRSA63J-102X	MG RESISTOR		
	R 950	NRSA63J-101X	MG RESISTOR		
	R 951	NRSA63J-102X	MG RESISTOR		
	RA901	NRSA63J-102X	MG RESISTOR		
	RA902	NRSA63J-102X	MG RESISTOR		

■ **Electrical parts list (HDD board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	RA903	NRSA63J-102X	MG RESISTOR		
	RA904	NRSA63J-104X	MG RESISTOR		
	RA905	NRSA63J-104X	MG RESISTOR		
	RA906	NRSA63J-102X	MG RESISTOR		
	RA907	NRSA63J-105X	MG RESISTOR		
	RA908	NRSA63J-331X	MG RESISTOR		
	RA909	NRSA63J-104X	MG RESISTOR		
	RA910	NRSA63J-104X	MG RESISTOR		
	RA911	NRSA63J-104X	MG RESISTOR		
	RA912	NRSA63J-102X	MG RESISTOR		
	RA913	NRSA63J-102X	MG RESISTOR		
	RA914	NRSA63J-102X	MG RESISTOR		
	RA915	NRSA63J-104X	MG RESISTOR		
	RA916	NRSA63J-102X	MG RESISTOR		
	RA918	NRSA63J-102X	MG RESISTOR		
	RA919	NRSA63J-102X	MG RESISTOR		
	RA920	NRSA63J-102X	MG RESISTOR		
	RA921	NRSA63J-104X	MG RESISTOR		
	RA922	NRSA63J-104X	MG RESISTOR		
	RA923	NRSA63J-104X	MG RESISTOR		
	RA926	NRSA63J-562X	MG RESISTOR		
	RA927	NRSA63J-512X	MG RESISTOR		
	RA928	NRSA63J-333X	MG RESISTOR		
	RA929	NRSA63J-750X	MG RESISTOR		
	RC901	NRSA63J-103X	MG RESISTOR		
	RC902	NRSA63J-271X	MG RESISTOR		
	RC903	NRSA63J-271X	MG RESISTOR		
	RC906	NRSA63J-473X	MG RESISTOR		
	RC907	NRSA63J-473X	MG RESISTOR		
	RC908	NRSA63J-473X	MG RESISTOR		
	RD901	NRSA63J-473X	MG RESISTOR		
	RD902	NRSA63J-473X	MG RESISTOR		
	RD903	NRSA63J-473X	MG RESISTOR		
	RD904	NRSA63J-473X	MG RESISTOR		
	RD905	NRSA63J-103X	MG RESISTOR		
	RD906	NRSA63J-102X	MG RESISTOR		
	RD907	NRSA63J-473X	MG RESISTOR		
	RD908	NRSA63J-101X	MG RESISTOR		
	RD911	NRSA63J-102X	MG RESISTOR		
	RD913	NRSA63J-103X	MG RESISTOR		
	RD914	NRSA63J-103X	MG RESISTOR		
	RE901	NRSA63J-104X	MG RESISTOR		
	RF901	NRSA63J-562X	MG RESISTOR		
	RF903	NRSA63J-103X	MG RESISTOR		
	X 910	NAX0476-001X	CRYSTAL		
	X 940	NAX0527-001X	CRYSTAL		

■ **Electrical parts list (CD servo board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 254	QERF1AM-476Z	E CAPACITOR	VDD0-VSS	
	C 255	NCB31CK-104X	C CAPACITOR	VDD1-VSS	
	C 256	NCB31CK-104X	C CAPACITOR	VDD1-VSS	
	C 271	NCS31HJ-101X	C CAPACITOR	FOR KCMD	
	C 272	NCS31HJ-101X	C CAPACITOR	FOR KCLK	
	C 273	NCB31CK-104X	C CAPACITOR	/RESET	
	C 291	NCB21CK-105X	C CAPACITOR	+3.5V-GND	
	C 292	NCB21CK-105X	C CAPACITOR	+5V-GND	
	C 601	NCB31HK-102X	C CAPACITOR	PU E	
	C 602	NCB31HK-102X	C CAPACITOR	PU F	
	C 603	NCB31EK-223X	C CAPACITOR	TBAL	
	C 604	NCB31EK-223X	C CAPACITOR	FBAL	
	C 605	NCS31HJ-271X	C CAPACITOR	FE	
	C 606	NCS31HJ-820X	C CAPACITOR	TE	
	C 610	NCB31CK-563X	C CAPACITOR	RFENV	
	C 611	NCB21CK-104X	C CAPACITOR	RF	
	C 612	QEKC1HM-104Z	E CAPACITOR	CAGC	
	C 614	NCB31CK-393X	C CAPACITOR	CEA	
	C 615	NCB31HK-272X	C CAPACITOR	CBDO	
	C 616	NCB31HK-182X	C CAPACITOR	COFTR	
	C 617	NCB31HK-331X	C CAPACITOR	OFT-D.GND	
	C 621	NCB31CK-104X	C CAPACITOR	VREF-D.GND	
	C 622	QEKC0JM-107Z	E CAPACITOR	VREF-D.GND	
	C 623	NCF21CZ-105X	C CAPACITOR	VCC-D.GND	
	C 624	QEKC0JM-107Z	E CAPACITOR	VCC-D.GND	
	C 631	QEKC1CM-106Z	E CAPACITOR	APC +5V-BASE	
	C 632	NCF21CZ-105X	C CAPACITOR	APC +5V-D.GND	
	C 633	NCB31EK-223X	C CAPACITOR	PU VDD-VREF	
	C 651	NCS31HJ-1R0X	C CAPACITOR	X1	
	C 652	NCS31HJ-1R0X	C CAPACITOR	X2	
	C 653	NCB31AK-334X	C CAPACITOR	RST-VSS	
	C 655	NCB31CK-104X	C CAPACITOR	DVDD1-DVSS1	
	C 656	NCB31CK-104X	C CAPACITOR	VDD-VSS	
	C 657	QEKC0JM-107Z	E CAPACITOR	DVDD1-DVSS1	
	C 658	NCB31CK-104X	C CAPACITOR	A.GND-D.GND	
	C 661	NCS31HJ-471X	C CAPACITOR	ARF	
	C 663	NCB31EK-223X	C CAPACITOR	ARF	
	C 664	NCB31EK-223X	C CAPACITOR	IREF	
	C 665	NCB21CK-154X	C CAPACITOR	PLLF	
	C 667	NCB21CK-474X	C CAPACITOR	VCOF	
	C 668	NCB31CK-473X	C CAPACITOR		
	C 673	QER60JM-107Z	E CAPACITOR	AVDD1-AVSS1	
	C 676	NCB31CK-104X	C CAPACITOR	TRCRS	
	C 677	NCB31CK-104X	C CAPACITOR	AVDD1-AVSS1	
	C 678	NCB31CK-104X	C CAPACITOR	VCC5V	
	C 679	QEKC0JM-107Z	E CAPACITOR	AVDD2-AVSS2	
	C 680	NCB31CK-104X	C CAPACITOR	AVDD2-AVSS2	
	C 681	NCS31HJ-8R0X	C CAPACITOR		
	C 682	NCS31HJ-220X	C CAPACITOR	RF EQ	
	C 683	NCS31HJ-390X	C CAPACITOR	RF EQ	
	C 801	NCB31EK-223X	C CAPACITOR	FOD-LPF	
	C 802	NCS31HJ-102X	C CAPACITOR	TRD-LPF	
	C 811	NCS31HJ-391X	C CAPACITOR	FOCUS	
	C 812	NCS31HJ-391X	C CAPACITOR	SPINDLE	
	C 813	NCS31HJ-391X	C CAPACITOR	FEED	
	C 814	NCS31HJ-391X	C CAPACITOR	TRACKING	
	C 815	NCB21AK-105X	C CAPACITOR	TRD-LPF	
	C 816	NCB20JK-155X	C CAPACITOR	FOD-LPF	
	C 817	NCF21CZ-105X	C CAPACITOR	SPINDLE MOTOR	
	C 818	NCF21CZ-105X	C CAPACITOR	FEED MOTOR	
	C 821	NCF21CZ-105X	C CAPACITOR	VCC-M.GND	
	C 822	QERF1AM-227Z	E CAPACITOR	VCC-M.GND	
	C 861	NCB31HK-102X	C CAPACITOR	AUD L	
	C 862	NCB31HK-102X	C CAPACITOR	AUD R	
	C 863	NCB31HK-272X	C CAPACITOR	AUD L	
	C 864	NCB31HK-272X	C CAPACITOR	AUD R	

⚠	Item	Parts number	Parts name	Remarks	Area
	CN601	QGF1037F1-15W	CONNECTOR	PICK UP/TR.MECH	
	CN605	QGF1016F2-04W	CONNECTOR	CD TEXT	
	CN606	QGF1016F2-08W	CONNECTOR	4T I/F	
	CN651	QGF1016F3-19	CONNECTOR	MAIN	
	D 251	DA204U-X	DIODE		
	D 292	MA112-X	DIODE		
	D 603	1SS355-X	DIODE		
	IC251	UPD780024AGKB63	IC	MICOM	
	IC291	XC62HR3502P-X	IC	3.5VREG	
	IC601	AN22000A-W	I.C	RF AMP	
	IC651	MN662790RSC	IC	DSP & DAC	
	IC801	LA6541-X	IC	PU DRIVE	
	K 655	NQR0007-002X	FERRITE BEADS	TX	
	K 656	NQR0251-004X	FERRITE BEADS	SRDATA	
	K 657	NQR0251-004X	FERRITE BEADS	LRCK	
	K 658	NQR0251-004X	FERRITE BEADS	BCLK	
	Q 631	2SA1037AK/RS/-X	TRANSISTOR	APC	
	Q 651	DTC114EUA-X	TRANSISTOR		
	Q 652	DTC114EUA-X	TRANSISTOR	RF EQ	
	Q 673	DTA114EKA-X	DIGITAL.TRANSIS	IREF CHANGE	
	R 251	NRSA63J-102X	MG RESISTOR	MCLK	
	R 252	NRSA63J-102X	MG RESISTOR	MDATA	
	R 253	NRSA63J-102X	MG RESISTOR	MLD	
	R 254	NRSA63J-102X	MG RESISTOR	/DMUTE	
	R 255	NRSA63J-102X	MG RESISTOR	MCS	
	R 256	NRSA63J-102X	MG RESISTOR	MRDY	
	R 257	NRSA63J-102X	MG RESISTOR	SQCK	
	R 258	NRSA63J-102X	MG RESISTOR	KCMND	
	R 259	NRSA63J-102X	MG RESISTOR	MSTAT	
	R 260	NRSA63J-102X	MG RESISTOR	KCLK	
	R 261	NRSA63J-0R0X	MG RESISTOR		
	R 262	NRSA63J-102X	MG RESISTOR	TXDO	
	R 263	NRSA63J-102X	MG RESISTOR	RXDO	
	R 264	NRSA63J-103X	MG RESISTOR		
	R 265	NRSA63J-183X	MG RESISTOR		
	R 271	NRSA63J-103X	MG RESISTOR	/OPEN PULL-UP	
	R 272	NRSA63J-103X	MG RESISTOR	/REST PULL-UP	
	R 273	NRSA63J-103X	MG RESISTOR	KEY1	
	R 274	NRSA63J-682X	MG RESISTOR	KEY2	
	R 275	NRSA63J-103X	MG RESISTOR	IC PULL DOWN	
	R 281	NRSA63J-102X	MG RESISTOR	CDCOPY	
	R 282	NRSA63J-102X	MG RESISTOR	CDTNO	
	R 283	NRSA63J-101X	MG RESISTOR	CDEMP	
	R 284	NRSA63J-102X	MG RESISTOR	CDINDEX	
	R 285	NRSA63J-102X	MG RESISTOR	/RESET	
	R 291	NRSA63J-103X	MG RESISTOR	P.CHECK	
	R 292	NRSA63J-1R0X	MG RESISTOR		
	R 293	NRSA63J-1R0X	MG RESISTOR		
	R 601	NRSA63J-224X	MG RESISTOR	TBAL	
	R 602	NRSA63J-823X	MG RESISTOR	FBAL	
	R 603	NRSA63J-393X	MG RESISTOR	FE	
	R 604	NRSA63J-224X	MG RESISTOR	TE	
	R 607	NRSA63J-473X	MG RESISTOR	PDE	
	R 608	NRSA63J-473X	MG RESISTOR	PDF	
	R 609	NRSA63J-0R0X	MG RESISTOR		
	R 611	NRSA63J-562X	MG RESISTOR	RF	
	R 613	NRSA63J-562X	MG RESISTOR	RF	
	R 617	NRSA63J-152X	MG RESISTOR	RF EQ	
	R 631	NRSA63J-2R2X	MG RESISTOR	+5V DE-COUPLE	
	R 632	NRSA63J-3R9X	MG RESISTOR	APC EMITTER	
	R 634	NRSA63J-3R9X	MG RESISTOR	APC COLECTOR	
	R 635	NRSA63J-100X	MG RESISTOR	PU DE-COUPLE	
	R 636	NRSA63J-151X	MG RESISTOR	PU LD	
	R 651	NRSA63J-102X	MG RESISTOR	LSI RESET	
	R 652	NRSA63J-102X	MG RESISTOR	STATAS	
	R 653	NRSA63J-102X	MG RESISTOR	SUBQ	

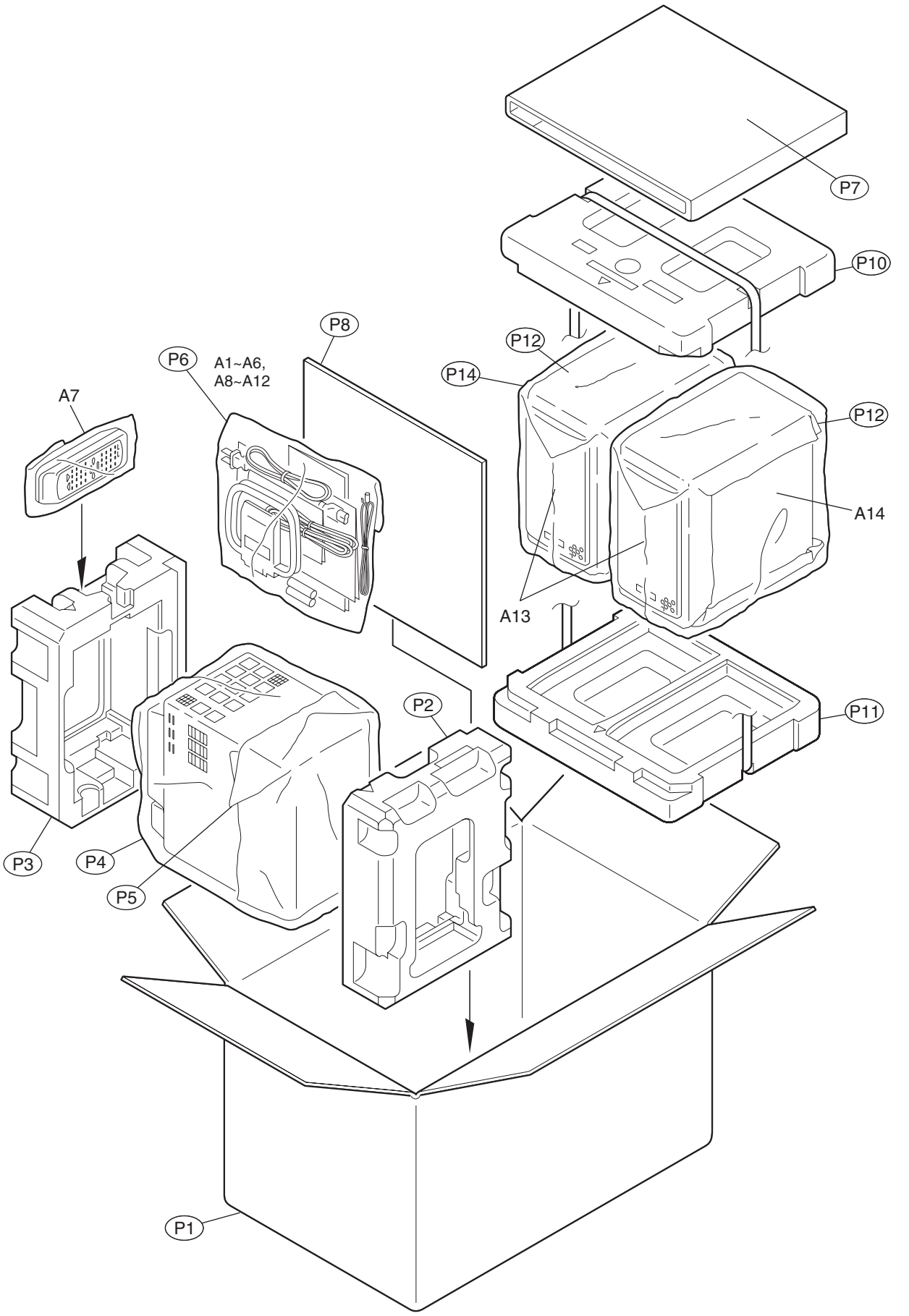
■ **Electrical parts list (CD servo board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 654	NRSA63J-102X	MG RESISTOR	BLKCK	
	R 659	NRSA63J-203X	MG RESISTOR	LD ON	
	R 661	NRSA63J-473X	MG RESISTOR	LDON	
	R 662	NRSA63J-683X	MG RESISTOR	ARF	
	R 663	NRSA63J-683X	MG RESISTOR	IREF	
	R 664	NRSA63J-331X	MG RESISTOR	PLLF	
	R 665	NRSA63J-101X	MG RESISTOR	X2	
	R 666	NRSA02J-101X	MG RESISTOR	AVDD1 DE-COUPLE	
	R 667	NRSA63J-4R7X	MG RESISTOR	AVDD2 DE-COUPLE	
	R 668	NRSA63J-155X	MG RESISTOR	DSLF	
	R 669	NRSA63J-562X	MG RESISTOR	VCOF	
	R 671	NRSA63J-684X	MG RESISTOR	DSLB	
	R 673	NRSA63J-683X	MG RESISTOR	IREF CHANGE	
	R 675	NRSA63J-100X	MG RESISTOR	DVDD1 DE-COUPLE	
	R 677	NRSA63J-102X	MG RESISTOR	DQSY	
	R 678	NRSA63J-102X	MG RESISTOR	SBCK	
	R 679	NRSA63J-102X	MG RESISTOR	SUBC	
	R 682	NRSA63J-102X	MG RESISTOR	TE	
	R 683	NRSA63J-105X	MG RESISTOR	TRSRC	
	R 685	NRSA63J-683X	MG RESISTOR	DRF	
	R 801	NRSA63J-272X	MG RESISTOR	FOD(DRV)	
	R 802	NRSA63J-152X	MG RESISTOR	FOD(DSP)	
	R 803	NRSA63J-472X	MG RESISTOR	TRD(DSP)	
	R 804	NRSA63J-103X	MG RESISTOR	TRD(DRV)	
	R 805	NRSA63J-123X	MG RESISTOR	TVD	
	R 806	NRSA63J-0R0X	MG RESISTOR		
	R 808	NRSA63J-183X	MG RESISTOR	ECM	
	R 809	NRSA63J-152X	MG RESISTOR	ECS	
	R 811	NRSA63J-473X	MG RESISTOR	/DRMUTE	
	R 812	NRSA63J-152X	MG RESISTOR	TRD-LPF	
	R 813	NRSA63J-182X	MG RESISTOR	FOD-LPF	
	R 861	NRSA63J-681X	MG RESISTOR	AUD L	
	R 862	NRSA63J-681X	MG RESISTOR	AUD R	
	R 863	NRSA63J-561X	MG RESISTOR	AUD L	
	R 864	NRSA63J-561X	MG RESISTOR	AUD R	
	SW101	QSW0927-001	SWITCH	REST SW	
	SW102	QSW0854-002	PUSH SW	TRAY SW	
	X 251	QAX0664-001Z	C OSCILLATOR	FOR IC251 8.38M	
	X 651	NAX0476-001X	CRYSTAL	FOR IC651	

Packing materials and accessories parts list

Block No. M 3 M M

Block No. M 5 M M



■ Parts list (Packing)

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	LV33262-002A	PACKING CASE	1		
	P 2	LV10527-001A	PACKING PAD(FRONT	1		
	P 3	LV10528-002A	PACKING PAD(REAR	1		
	P 4	QPC05005015P	POLY BAG	1	FOR SET	
	P 5	LV42796-001A	SHEET	1	FOR SET	
	P 6	QPC02503510P	POLY BAG	1	FOR ACCESSORY	
	P 7	LV33322-002A	CARTON SPACER	1		
	P 8	LV43136-001A	PACKING SHEET	1	BETWEEN CA AND	
	P 10	8000048601	TOP CUSHION	1	FOR SPEAKER	
	P 11	8000048611	BOTTOM CUSHION	1	FOR SPEAKER	
	P 12	8500041701	MIRROR MAT	2	FOR SPEAKER	
	P 14	8500041601	POLY BAG	2	FOR SPEAKER	

■ Parts list (Accessories)

Block No. M5MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0859-001A	INST BOOK	1	ENG,FRE	
	A 2	BT-52006-1	WARRANTY CARD	1	TO INST	
	A 4	QAL0429-001	AM LOOP ANT	1		
	A 5	QAL0457-001	ANT.WIRE	1		
	A 6	----------	BATTERY	2		
	A 7	RM-SNXHD10J	REMOCON	1	INSERT TO P.PAD	
⚠	A 8	QMPE090-183-JD	POWER CORD	1	INSERT TO P.PAD	
	A 9	BT-20071B	JVC CENTER LIST	1		
	A 10	YU20333	SAFETY INST.	1		
	A 11	BT-51028-2	J=REGIST CARD	1		
	A 12	QAM0339-001	SPEAKER CORD	2		
	A 13	9910006131	SARAN BOARD	2	FOR SPEAKER	
	A 14	NXHD10K-SPBOX	SPK.WITH BOX	2	FOR SPEAKER	